ClientPOS

PT6300

User Manual

Version: 2.0

P/N :

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Safety Instructions

1. Read these instructions carefully. Keep these instructions for future reference.
2. Please disconnect this equipment from AC outlet before cleaning. Don't use liquid or sprayed detergent for cleaning. Use moisture sheet or cloth for cleaning.
3. Please keep this equipment from humidity.
4. Lay this equipment on a reliable surface when install. A drop or fall could cause injury.
5. Make sure power cord such a way that people can not step on it. Do not place anything over the power cord.
6. All cautions and warnings on the equipment should be noted.
7. If the equipment is not used for long time, disconnect the equipment from main to avoid being damaged by transient over voltage.
8. Never pour any liquid into opening, this could cause fire or electrical shock.
9. If one of the following situations arises, get the equipment checked by a service personnel:
    a. The power cord or plug is damaged.
    b. Liquid has penetrated into the equipment.
    c. The equipment has been exposed to moisture.
    d. The equipment does not work well or you can not get it work according to **user manual.**
    e. The equipment has dropped and damaged.
10. Do not leave this equipment in an environment unconditioned, storage temperature below -20°C or above 60°C, it may damage the equipment.
11. Unplug the power cord when doing any service or adding optional kits.

Lithium Battery Caution:

1. Danger of explosion can happen if the battery is incorrectly replaced. Replace only the original or equivalent type recommended by the manufacture. Dispose used batteries according to the manufacture's instructions.

Do not remove the cover, and ensure no user serviceable components are inside. Take the unit to the service center for service and repair.

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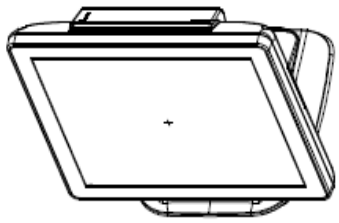
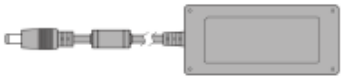
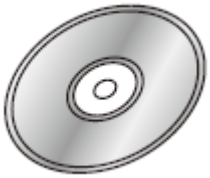
1 Packing List

1-1 Standard Accessories

a. 	b. 
c.	d. 
e.	f.

a. System (with stand)
b. Power Adapter
c. Power Cord
d. Driver Bank
e. Screw x2
f. Cable Cover

1-2 Optional Accessories

a.	b.
c.	

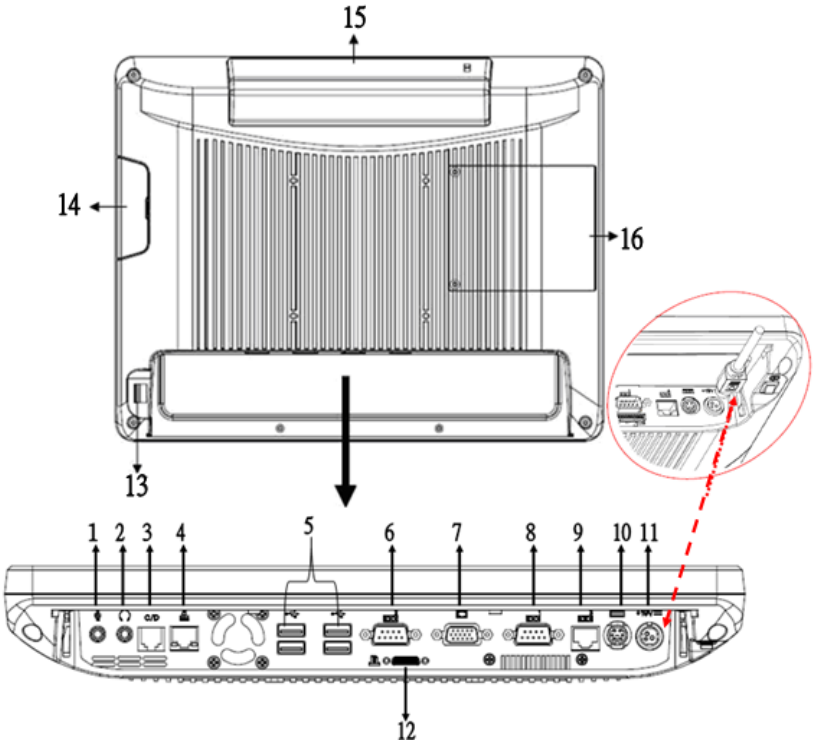
a. Single MSR
b. 3 IN 1 MSR
c. Screw x2

2 System View

2-1 Rear View

Item

1. Mic
2. Line-Out
3. RJ11 (Cash Drawer)
4. RJ45(LAN)
5. USB 2.0 X4
6. COM1
7. VGA
8. COM2
9. RJ45(COM 3 external)
10. PS2(K/B)
11. 19V DC Input
12. Parallel port (Option)
13. Power Button
14. MSR/Smart Card/ i-Button/ Fingerprint/ RFID (Option)
15. VFD(Option)
16. HDD/CFast CARD

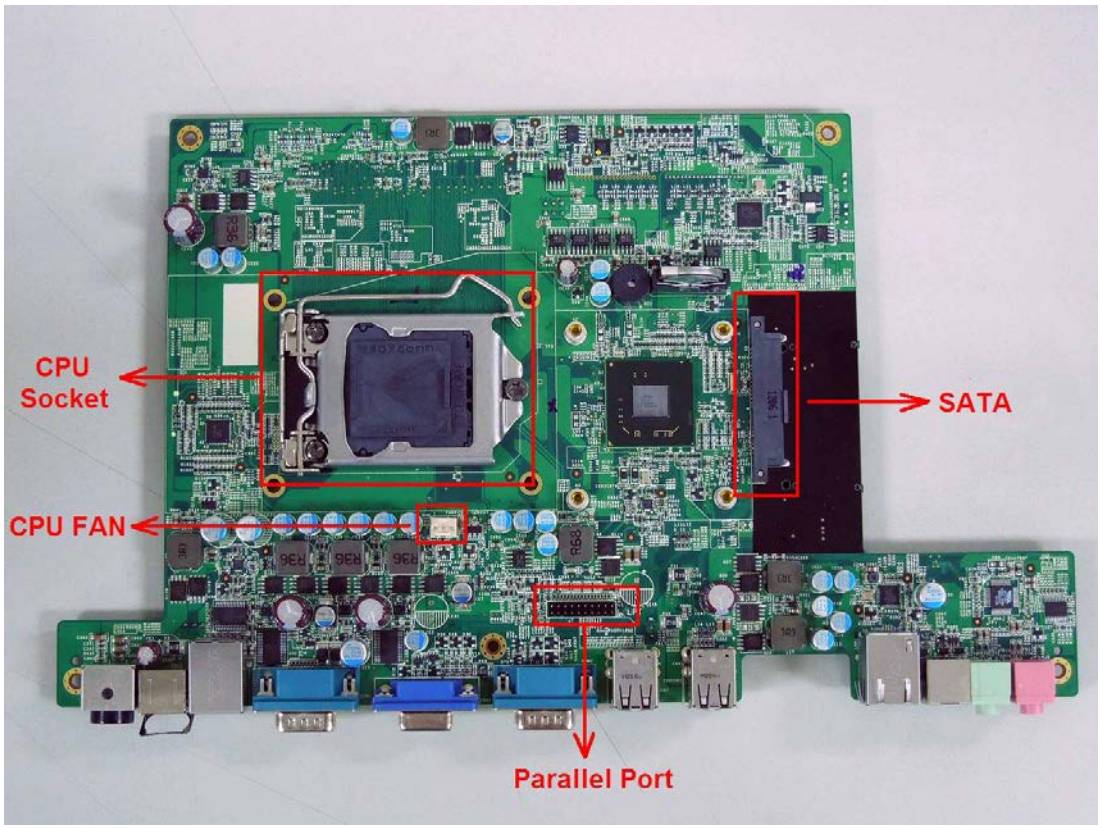


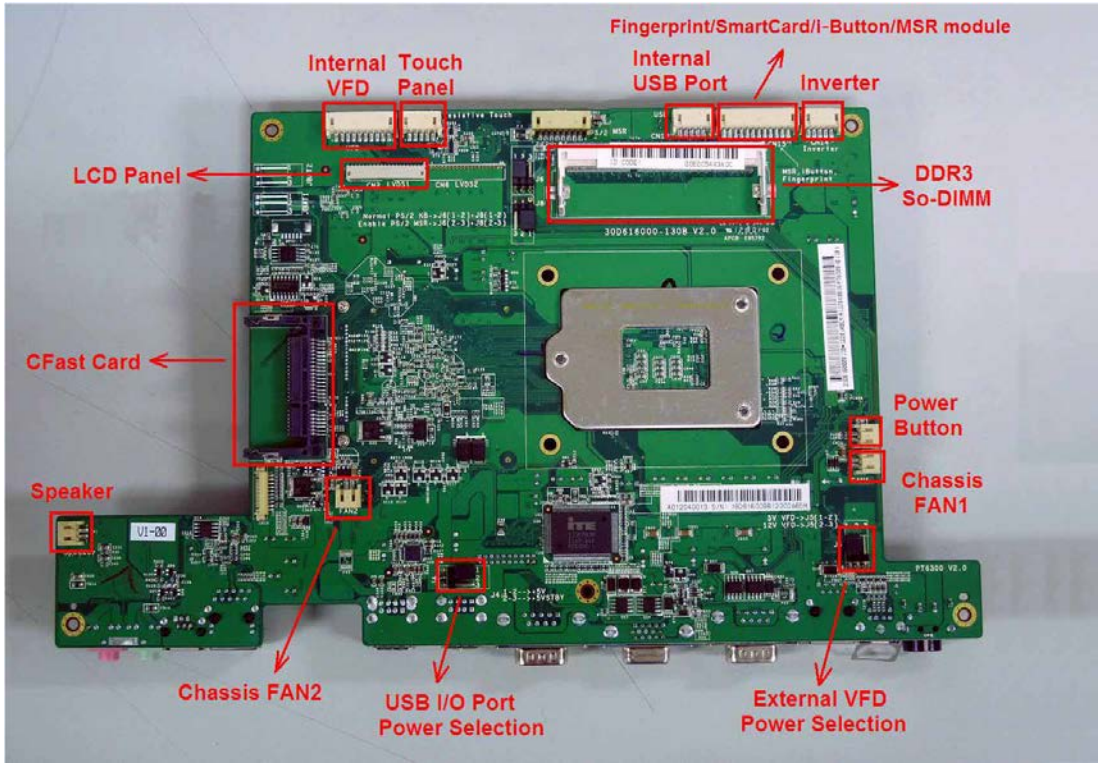
2-2 Specification

Processor	Intel® Core™ i3-2120 processor (3M Cache, 3.30GHz) Intel® Pentium® G850 processor (3M Cache, 2.90GHz) Intel® Celeron® G540 processor (2M Cache, 2.50GHz)
Chipsets: North Bridge/South Bridge	H61
Memory	One SO-DIMM socket supports DDR3 1333MHZ up to 4GB
Audio	Line-out/Mic-in
Network	RJ45 10/100/1000 Base-T
USB	4*USB 2.0
Storage	CFast type I / 2.5” SATA HDD / SSD
BIOS	AMI UEFI BIOS
Power	DC 19V 180W Adaptor
Thermal Solution	Heat sink + Fan X3
Dimension	368 (W) x 264.2 (H) x 285 (D) mm
Operating Temperature	0°C ~ 35°C
Storage Temperature	-20°C ~ 60°C
Storage Humidity	20% ~ 80%, non-condensing

Display	
LCD Panel Size	15-inch TFT Active Matrix Display
Resolution	1024*768 Pixels
Brightness	250 cd/m2
Touch Panel	5-wire Resistive Type / Projected Capacitive Type
Tilt Angle	30°~90° <DC 36W(12V) external power adapter>

2-3 Internal Layout





2-4 Touch Panel Life Test Condition

2-4-1 Pointing life test

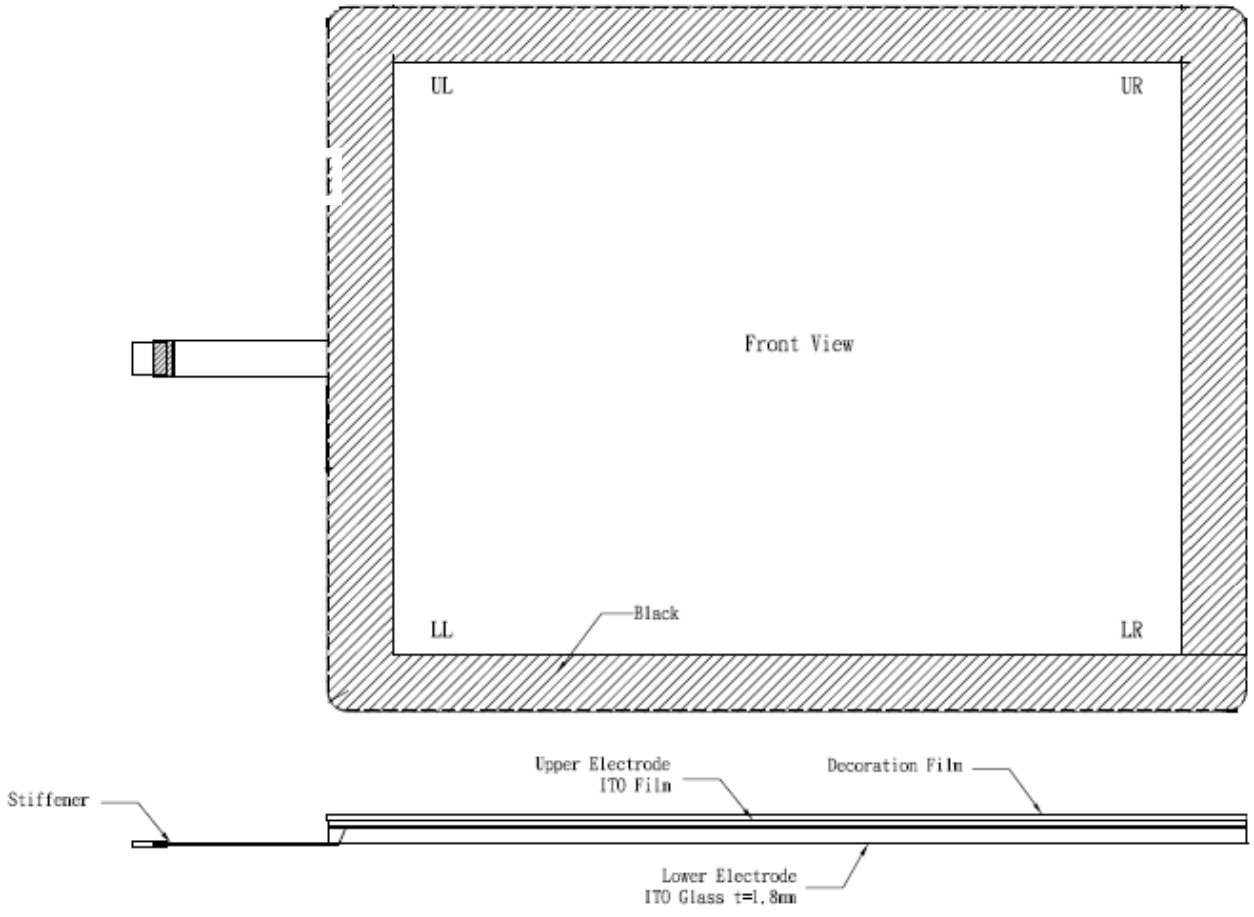
Hit it thirty five million times with a silicon rubber of R 0.8, Hs 60 and measure it. The measurement must satisfy the under-metioned items. Hitting force shall be 250g and hitting speed 3 times per second.

- Resistance state should the same 5.1
- Linearity should the same 5.2
- Insulation resistance should the same 5.3

2-4-2 Hand Writing test

Write one hundred thousand times of 40mm straight line to and fro (counts as twice) with and engineering plastic stylus in AA area. The measurement items must satisfy the under-mentioned items. Writing force shall be 250g and writing speed 3,000 times per hour.

- Resistance state should the same 5.1
- Linearity should the same 5.2
- Insulation resistance should the same 5.3



3 Pin Definition

1. COM 4 for Touch Panel (CN 16)

Pin	Function	Pin	Function	Pin	Function
1	T_UR	3	T_SG	5	T_LR
2	T_UL	4	T_LL		

2. Parallel J7

Pin NO.	Pin Name	Description
1	STB#	Printer Strobe
2	PD0	Parallel Port DATA0
3	PD1	Parallel Port DATA1
4	PD2	Parallel Port DATA2
5	PD3	Parallel Port DATA3
6	PD4	Parallel Port DATA4
7	PD5	Parallel Port DATA5
8	PD6	Parallel Port DATA6
9	PD7	Parallel Port DATA7
10	ACK#	Printer Acknowledge
11	BUSY	Printer Busy
12	PE	Printer Paper End
13	SLCT	Printer Select

Pin NO.	Pin Name	Description
14	AFD#	Printer Auto Line Feed
15	ERR#	Printer Error
16	INIT#	Printer Initialize
17	SLIN#	Printer Select Input
18	GND	Ground
19	GND	Ground
20	GND	Ground

3. Lin-out J3

Pin NO.	Pin Name	Description
1	GND	Ground
2	GND	Ground
3	Line OUT R	Line out
4	Line OUT L	Line out
5	Detect	Detect

4. VFD Connector CN9

Pin NO.	Pin Name	Description
1	5V	+5V
2	NDSR	DSR
3	GND	Ground
4	NDTR	DTR
5	NRTS	RTS
6	NCTS	CTS
7	NTXD	TXD
8	NRXD	RXD
9	GND	Ground
10	12C	+12V

5. Mic

Pin NO.	Pin Name	Description
1	GND	Ground
2	GND	Ground
3	Mic R	Mic right
4	Mic L	Mic left
5	Detect	Detect

6. Speaker SP1

Pin NO.	Pin Name	Description
1	+	Speaker +
2	-	Speaker -

7. LVDS CN 2

Pin NO.	Pin Name	Description
1	LCDVCC	+3.3v
2	LCDVCC	+3.3v
3	GND	Ground
4	NC	NC
5	DATA 0-	LVDS Output DATA0-
6	DATA 0+	LVDS Output DATA0+
7	GND	Ground
8	DATA 1-	LVDS Output DATA1-
9	DATA 1+	LVDS Output DATA1+
10	GND	Ground
11	DATA 2-	LVDS Output DATA2-
12	DATA 2+	LVDS Output DATA2+
13	GND	Ground
14	CLK-	LVDS CLK-

Pin NO.	Pin Name	Description
15	CLK+	LVDS CLK+
16	GND	Ground
17	NC	NC
18	NC	NC
19	GND	Ground
20	NC	NC

8. Inverter CN14

Pin NO.	Pin Name	Description
1	VCC	+12V
2	GND	Ground
3	NC	NC
4	BKL_CTL	Back Light Brightness
5	BKL_EN	Back Light Enable

9. Extra USB CN13

Pin NO.	Pin Name	Description
1	VCC	+5V
2	- DATA	D-
3	+ DATA	D+
4	GND	Ground
5	GND	Ground

4 Rear I/O Interface

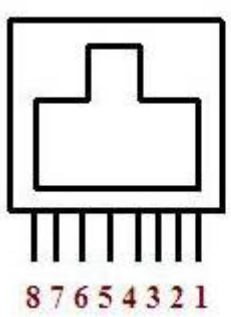
1. COM1' COM2' port

Pin	Signal	Function	Pin	Signal	Function
1	CD	Carrier Detect (IN)	6	DSR	Data Set Ready (In)
2	RD	Receive Data (IN)	7	RTS	Request To Send (OUT)
3	TD	Transmit Data(OUT)	8	CTS	Clear To Send (IN)
4	DTR	Data Terminal Ready(OUT)	9	Ring/5V/12V	Setting by BIOS
5	GND	Ground			

NOTICE:

☆ **Warning!! COM 3 (RJ45 Connector) is for external VFD use only. Do not use on network device. If you use on the network device, it would cause the device damaged.**

☆☆ **COM 3 port can not be connected if POS has built-in internal VFD. (Alternative of COM 3 or internal VFD.)**



Pin 1: +5V / +12V
Pin 2: DSR#
Pin 3: GND
Pin 4: DTR#
Pin 5: RTS#
Pin 6: CTS#
Pin 7: TxD
Pin 8: RxD

Jumper for COM 3 Voltage Setting

2. VGA port

Pin	I/O	Function	Pin	I/O	Function
1	Out	Red Video	9	-	Key (Plugged Hole)
2	Out	Green Video	10	-	Sync Ground
3	Out	Blue Video	11	In	Monitor ID 0
4	In	Monitor ID 2	12	In	Monitor ID 1
5	-	TTL Ground (Monitor Self Test)	13	Out	Horizontal Sync
6	-	Red Analogue Ground	14	Out	Vertical Sync
7	-	Green Analogue Ground	15	In	Monitor ID 3
8	-	Blue Analogue Ground			

3. USB port

Pin	Signal Name	Wire Colour	Comment
1	VCC	Red	Cable Power
2	- Data	White	Data Transfer
3	+ Data	Green	Data Transfer
4	Ground	Black	Cable Ground
Shell	Shield	-	Drain Wire

4. PS/2 K/B port

Pin	Signal Name
1	Data from Device
2	Not Connected
3	Ground
4	+5V DC
5	Clock
6	Not Connected

5. LAN port

Pin	Wire Colour	Description
1	White / Orange	Transmit
2	Orange	Transmit
3	White / Green	Receive
4	Blue	Not Used ⊗
5	White / Blue	Not Used ⊗
6	Green	Receive
7	White / Brown	Not Used ⊗
8	Brown	Not Used ⊗

6. RJ11 port (for Cash Drawer)

Pin	Signal Name	Direction
1	Frame GND	-
2	Drawer Kick-out drive signal 1	Output
3	**N/C**	**-**
4	+12V	-
5	**N/C**	**-**
6	Signal GND	-

Example DOS COMMAND for **Cash Drawer**:

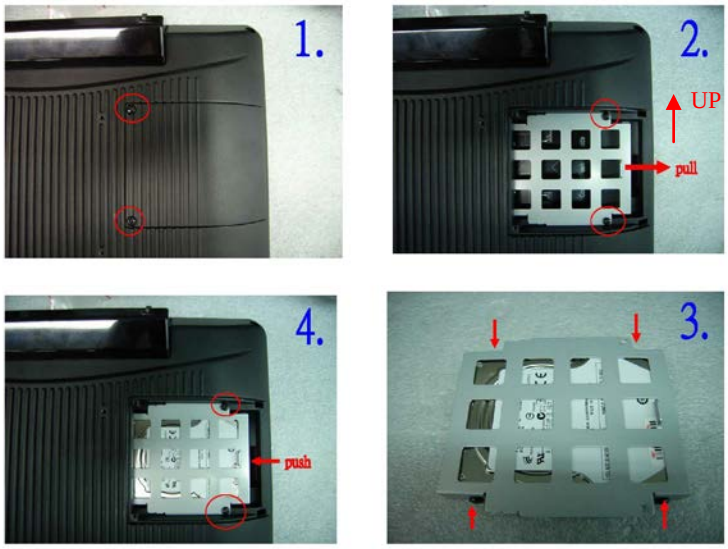
1. Create **the file**: TEST.TXT
2. Input below **contents** in TEST.TXT
   CONTEXT-"000.0"
   MODE COM5:300
3. Run COMMAND under DOS mode
   COPY TEST.TXT COM 5

7. DC Jack

Pin	Signal Name
1	DC IN 19V
2	Ground

5 System Assembly & Disassembly

5-1 HDD



1. Unfasten the HDD cover screw*2
2. Pull out the HDD bracket
3. Fasten the screw*4
4. Place the HDD bracket back to the module

5-2 CFast Card

1. Please notice the unnotched CFast Card . This side up.

2. Before Installing CFast Card.

3. After Installing CFast Card

5-3 MSR

1. Open the MSR cover
2. Single MSR or 3-in-1 MSR
3. Screw*2 M3x10L
4. Fasten the screw

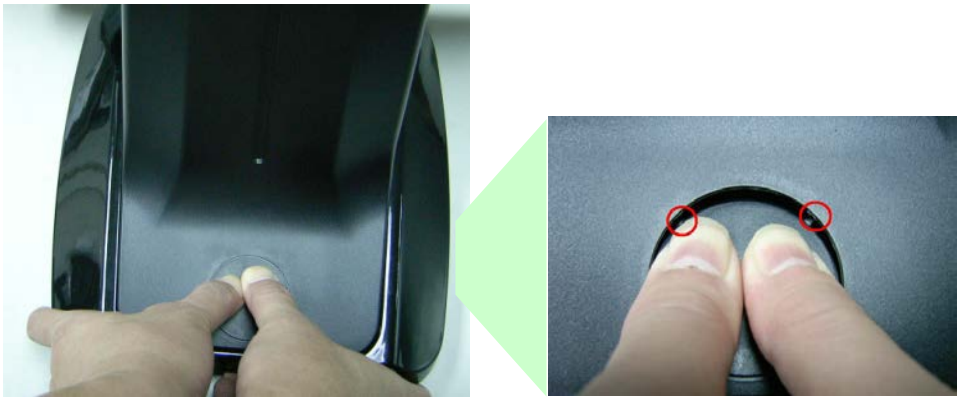
5-4 cable cover

Assemble the cable cover from bottom and make sure the two latches are on the right position.

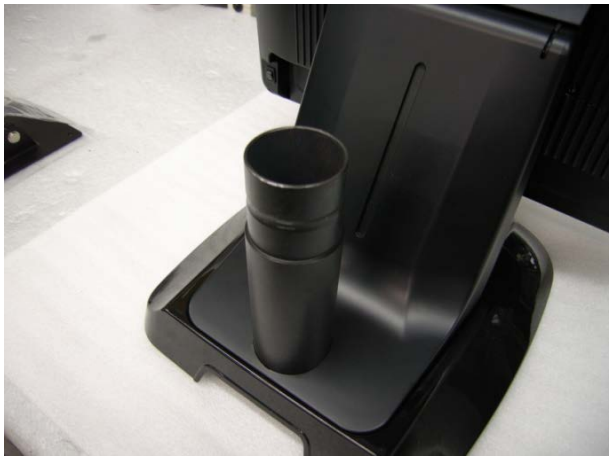
Then fasten 2 screws (M3*5L).

5-5 15” 2nd Display

1. Remove the plastic pole cover from the stand.

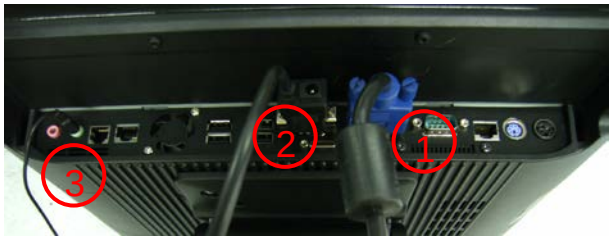


2. Install the pole into the socket in clockwise direction.



3. Fasten the four screws (M4*8L) to joint the VESA bracket and the rear cover.

4. Connect the COM port, DC cable as shown in figure①. (Please refer to page 89 to set the COM port pin9 with 12V DC output.)
5. Connect the VGA cable as shown in figure②.
6. Connect the audio cable as shown in figure③.

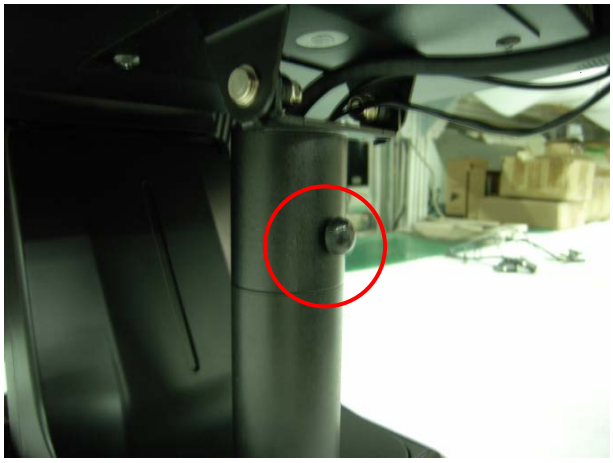


7. Assemble the cable cover from bottom and make sure the two latches are on the right position, and fasten the two screws (M3*5L).

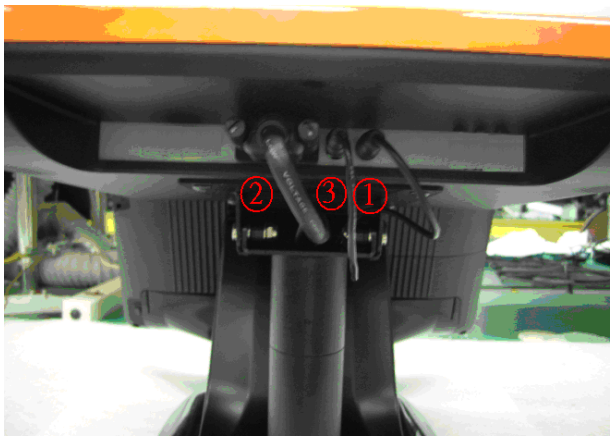
8. Route the cables through the opening of stand front cover and cable clip at the bottom and route the cables into the tube of pole.

9. Reeve the cables out of the tube.

10. Mount the VESA bracket on the pole and route cables out of the tube of VESA bracket. Fasten the thumb screw to fix the VESA bracket.



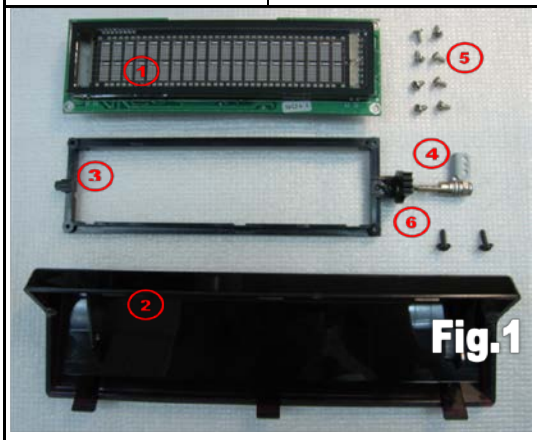
11. Connect the DC power cable as shown in figure①.
12. Connect the VGA cable as shown in figure②.
13. Connect the Audio cable as shown in figure③.

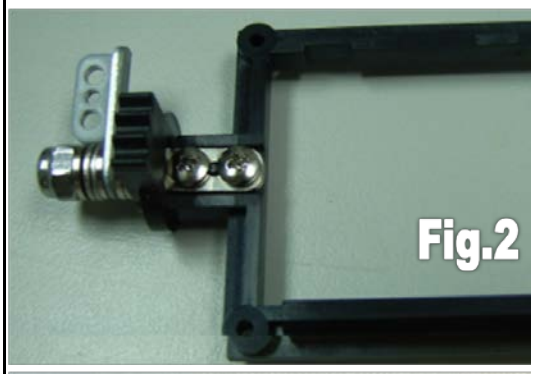


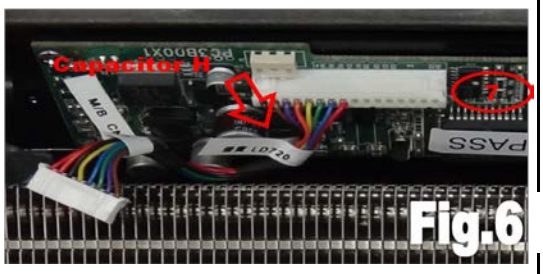
14. Put the cable cover on the hinge of VESA bracket.

5-6 Internal VFD

ClientPOS	ClientPOS electronics Inc.	Model	PT6300	Assembling Figure





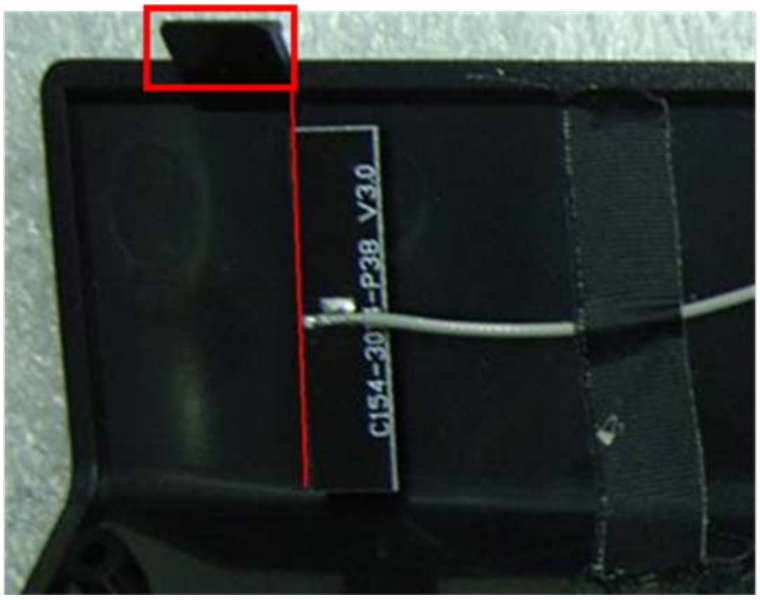


Operation	VFD MODULE assemblely	
Item	**Operation procedure**	**Remark**
1	Prepare all components as Fig 1	
2	Assemble HOLDER & HINGE ASSY by TAPPING SCREW P/H 2.6φ*5 x2 pcs(As Fig 2)	Torque 2Kgf
3	Fix VFD MODULE on holder assy by TAPPING SCREW P/H 2.6φ*5 x4 pcs as Fig 3	Torque 2Kgf
4	Screw DISPLAY MODULE on VFD cover by TAPPING SCREW P/H 2.6φ*5 x 2pcs AS fig 4)	Toqure 2Kgf
5	Fix VFD moduler on Rear cover by TAPPING SCREW R/H M3*8L x 2pcs (As Fig 5)	Torque 2Kgf
6	The VFD CABLE must be around to capacitor H below, so as not to interfere HINGE action	
	(As Fig 6)	
Item	**P/N and Component**	
1	20D990002-000B DISPLAY MODULE VFD *1	
2	68D350235-000B COVER FOR VFD *1	
3	78D300021-000B HOLDER FOR VFD *1	
4	26D100005-000B HINGE ASSY FOR VFD *1	
5	64D426051-000T SCREW TAPPING P/H 2.6φ*5 *8	
6	64D430088-000T SCREW TAPPING R/H M3*8L *2	
7	35D510480-000B CABLE 16P femail TO 8P female *1	
Item	**Action item**	
1	Wear cotton gloves 、 wrist strap and may not wear watches, rings, etc.	
2	Screws to lock in place and can not lost	
3	Electric screwdriver Torque to be regularly calibrated,	

☆ **Alternative of external COM 3 (RJ45 Connector) or Internal VFD.**

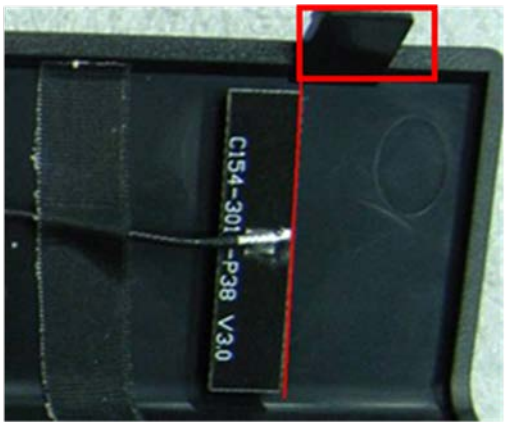
5-7 Wi-Fi

1. Fasten antenna (Part No.: 35D510530-000B) to the left side of VFD cover. Antenna is vertical to the right of the left snap(as the red frame) as shown in the figure below

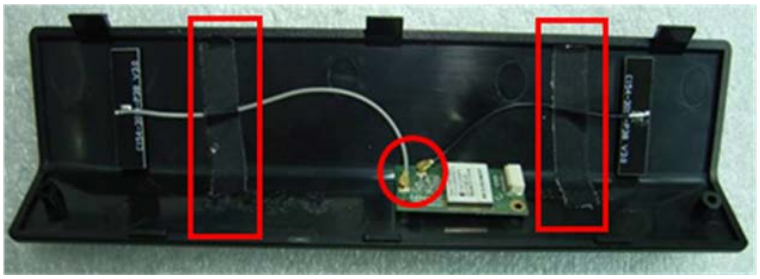


2. After fastening the Wi-Fi Module to the Rubber (Part No.: 78D200655-000T), fix this on the VFD cover. The left side of Wi-Fi module should align the interior cover as the position of the red line. The right side of Wi-Fi module should align another side as the red circle.

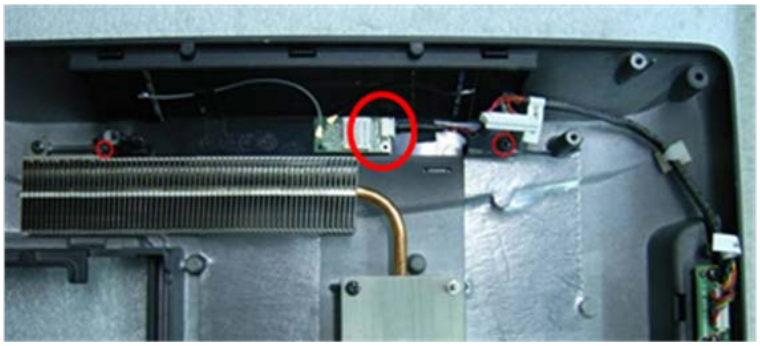
3. Fasten antenna (Part No.: 35D510530-000B) to the right side of VFD cover. Antenna is vertical to the left snap (as the red frame) as shown in the figure below.



4. Fasten antenna cable connector to Wi-Fi module terminal. Then fasten antenna cable to the cover by adhesive tapes



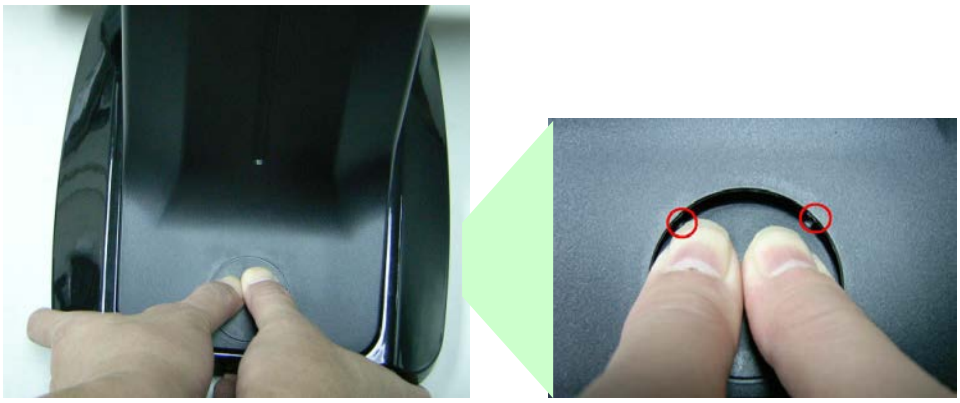
5. Fasten the VFD cover to the rear lid. Push the snap of the top VFD cover into the slot of rear lid and fasten the bottom cover with 2 screws (Part No.: 64D430088-000T). Then connect Wi-Fi /MSR cable (Part No.:35D510522-000B) to Wi-Fi module



☆ **Alternative of WiFi or Internal VFD.**

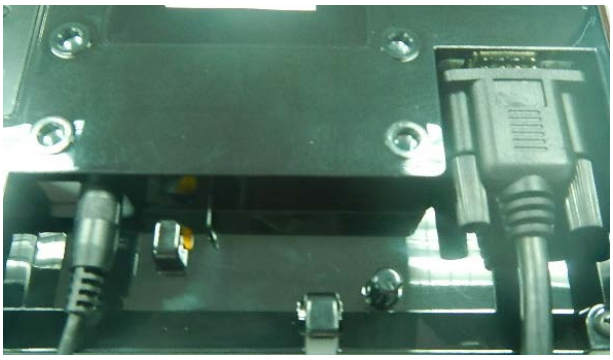
5-8 8” 2nd Display

1. Remove the plastic pole cover from the stand.

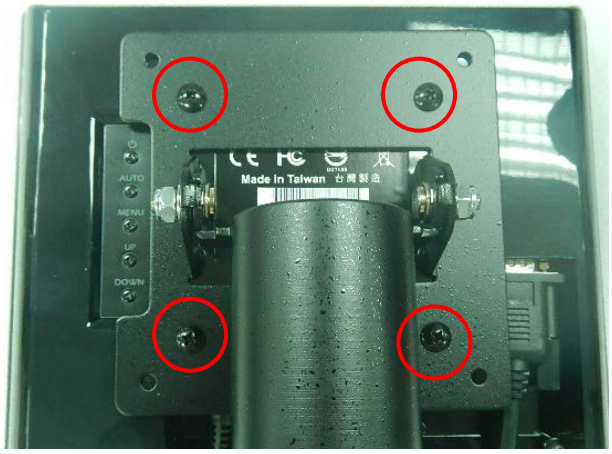


2. Install the pole into the socket in clockwise direction.

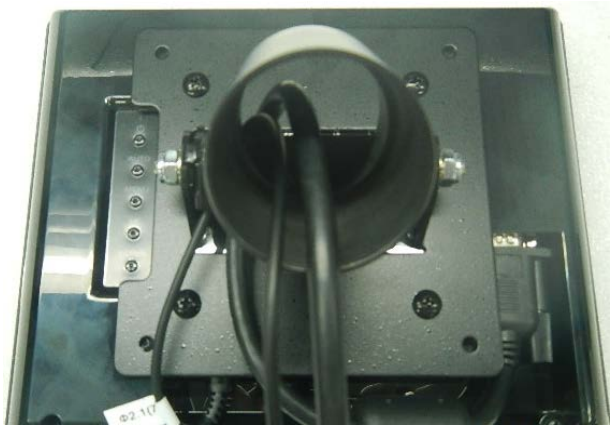
3. Connect VGA cable and DC power cable



4. Fasten the four screws (M4*8L) to joint the VESA bracket and the rear cover.



5. Reeve the cables out of the tube.



6. Mount the VESA bracket on the pole and route cables out of the tube of VESA bracket. Fasten the thumb screw to fix the VESA bracket.

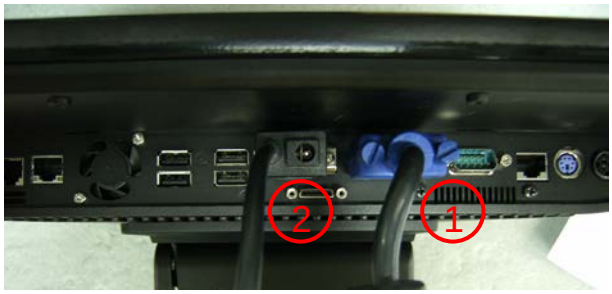
7. Reeve the cables out from the bottom of pole.

8. Route the cables through the opening of stand front cover and cable clip at the bottom and route the cables into the tube of pole.

9. Connect the DC power cable as shown in figure①.

☆ To setup COM port PIN9 with 12V DC output from BIOS setup, please refer to page 89, ***Advanced Chipset Features*** **/ COM port PIN9 setting.**

10. Connect the VGA cable as shown in figure②.

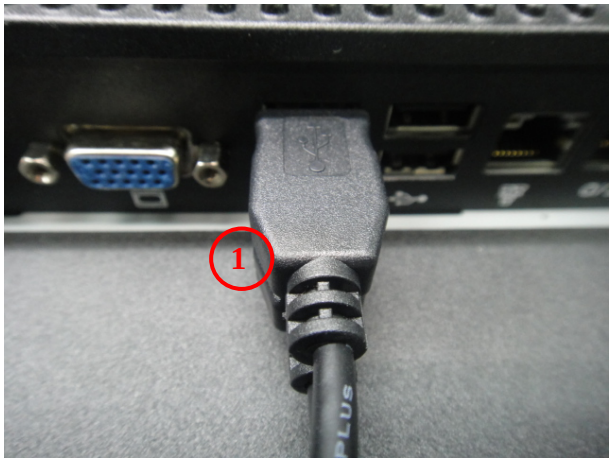


11. Put the cable cover on the hinge of VESA bracket.

5-9 1D / 2D / i-Button with RFID module

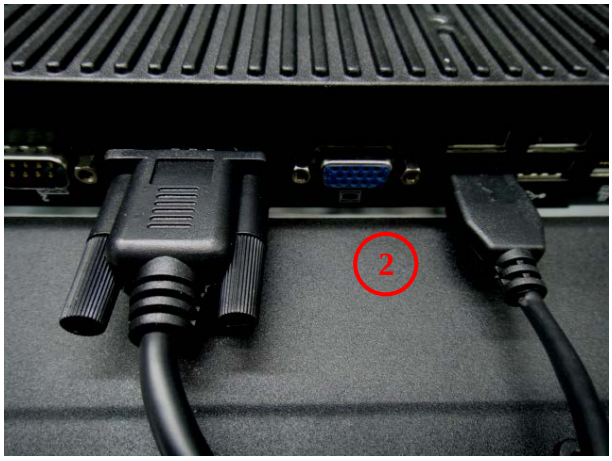
1. Cable installation.

   a. For i-Button with RFID module; For 2D barcode scanner with RFID module:
   Connect the cable as shown in figure①.



   b. For 1D barcode scanner with RFID module:
   Connect the cable as shown in figure②.

☆ Before COM port cable connection, please setup COM port PIN9 with 5V DC output from BIOS setup.
Please refer to page 89, ***Advanced Chipset Features* / COM port PIN9 setting.**

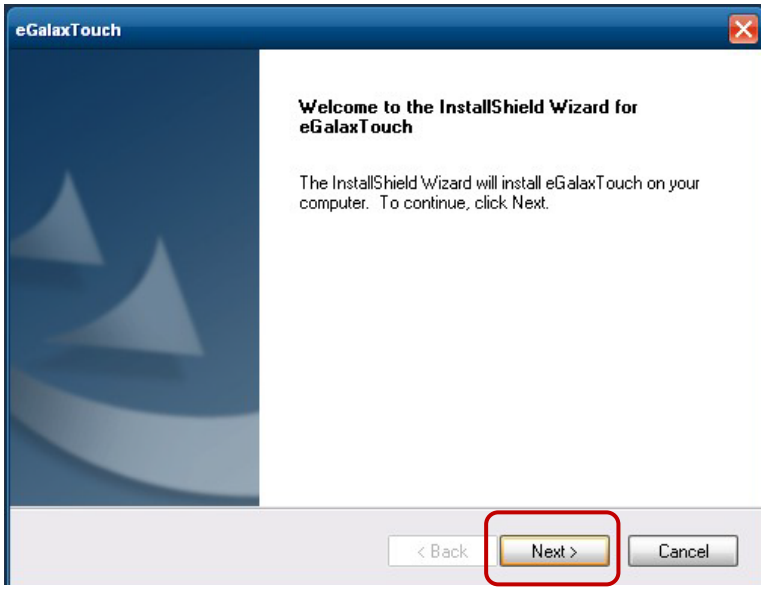


2. Fix the screws as shown in below figure.

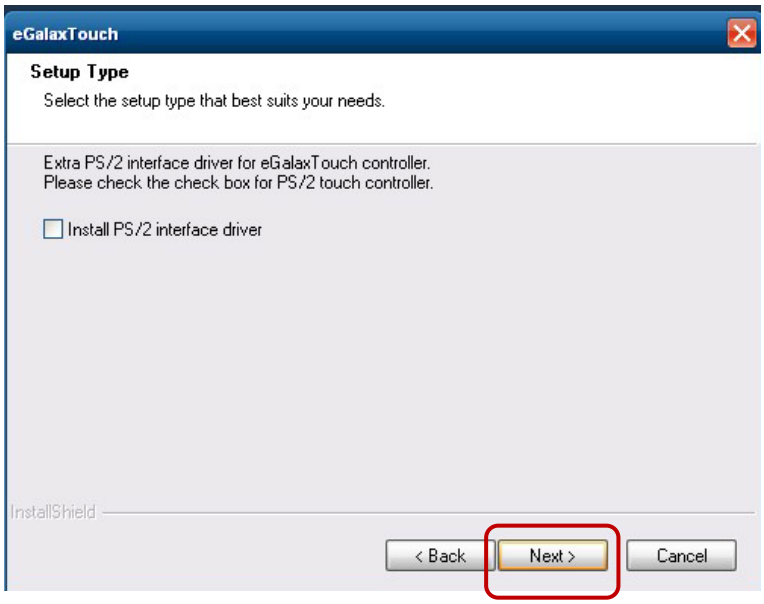
6 Device Driver Installation

6-1. Resistive Type Touch Panel and P-CAP

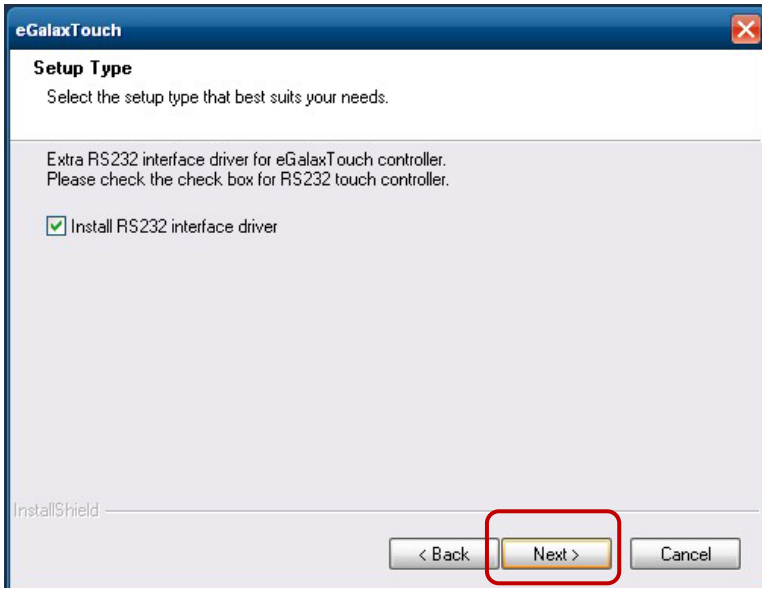
1. Click "**Next**".


eGalaxTouch
Welcome to the InstallShield Wizard for eGalaxTouch
The InstallShield Wizard will install eGalaxTouch on your computer. To continue, click Next.
< Back
Next >
Cancel

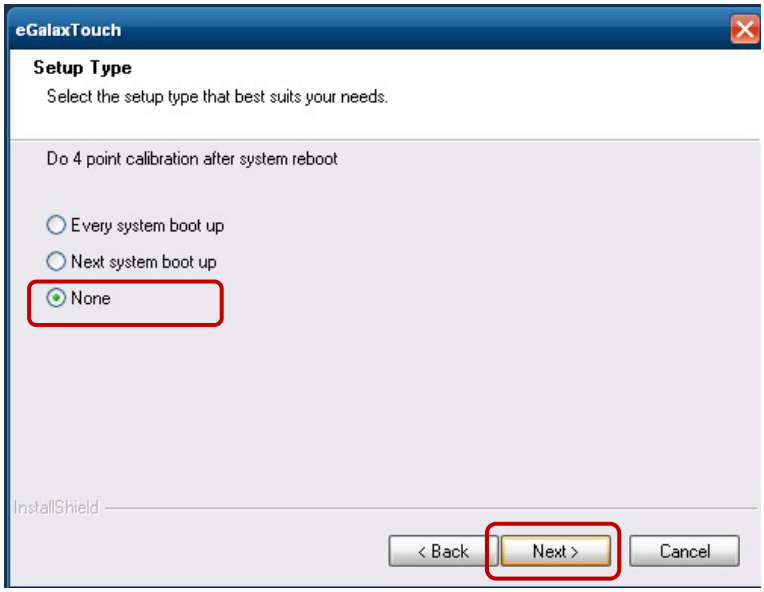
2. Click "**Next**".


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Extra PS/2 interface driver for eGalaxTouch controller.
Please check the check box for PS/2 touch controller.
Install PS/2 interface driver
InstallShield
< Back
Next >
Cancel

3. Click “**Next**”.


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Extra RS232 interface driver for eGalaxTouch controller.
Please check the check box for RS232 touch controller.
Install RS232 interface driver
InstallShield
< Back
Next >
Cancel

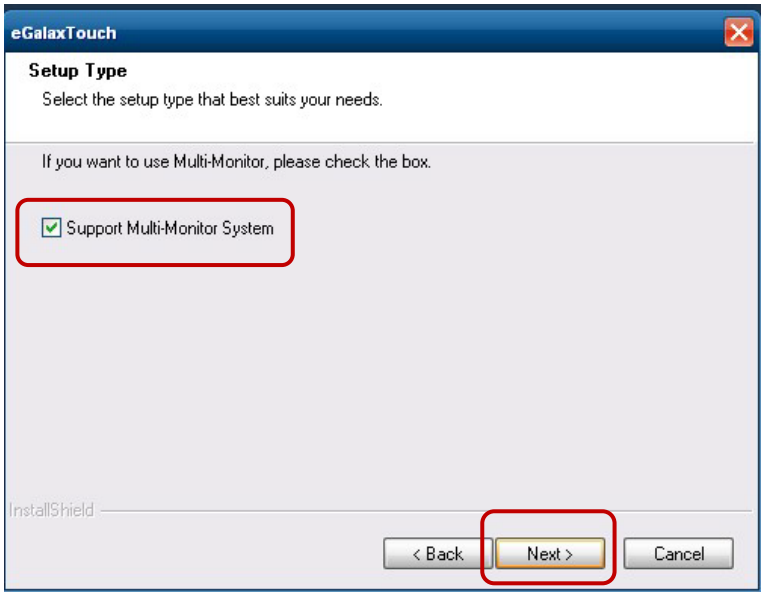
4 . Select “**None**”, Click “**Next**”.



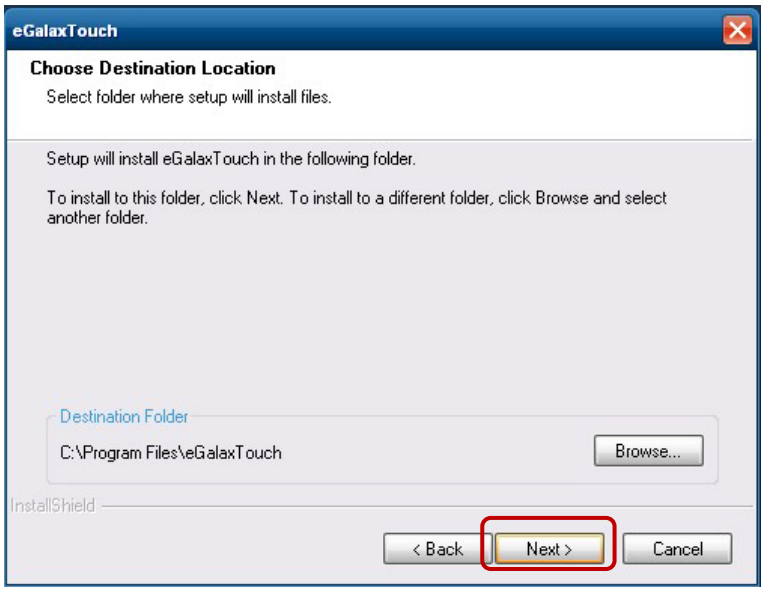
5. Click “**OK**”.

eGalaxTouch - InstallShield Wizard
If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB cable is plugged into the computer now.
Please close the "Found New Hardware Wizard" dialog when it appears.
OK

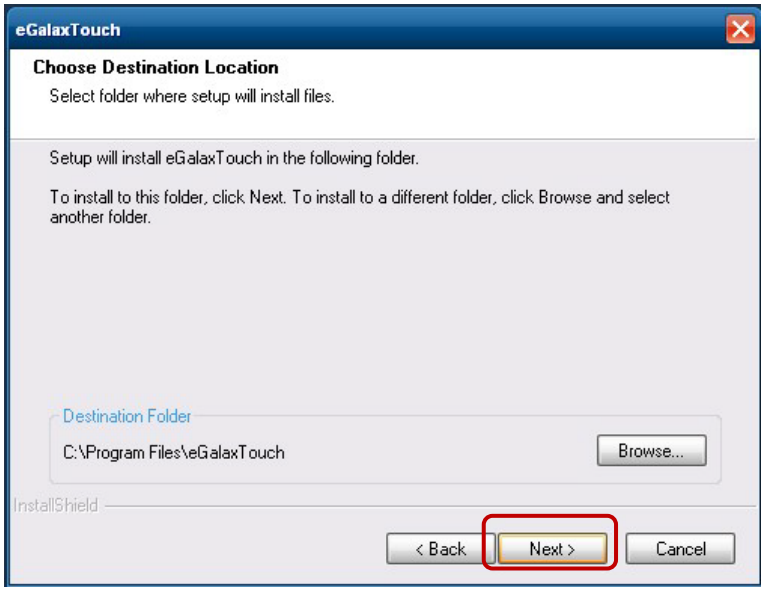
6. Select "**Support Multi-Monitor System**", Click "**Next**".



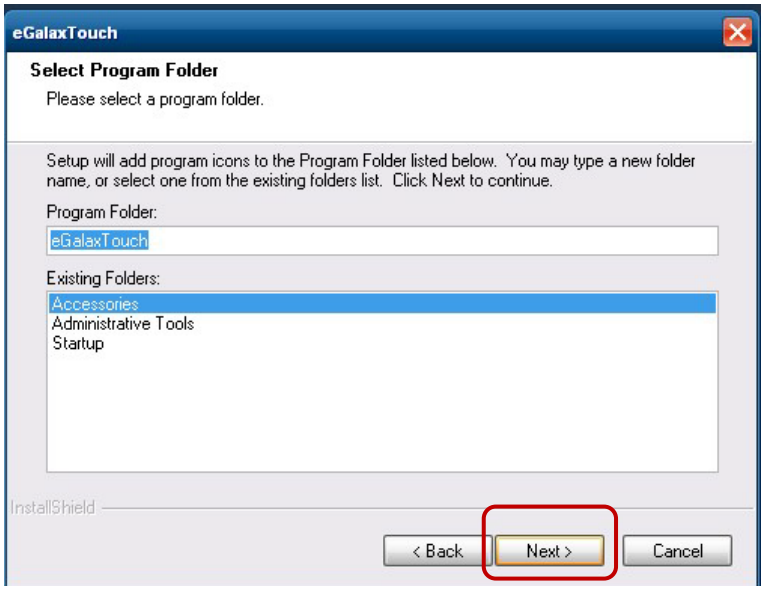
7. Click "**Next**".


eGalaxTouch
Choose Destination Location
Select folder where setup will install files.
Setup will install eGalaxTouch in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\eGalaxTouch
Browse...
InstallShield
< Back
Next >
Cancel

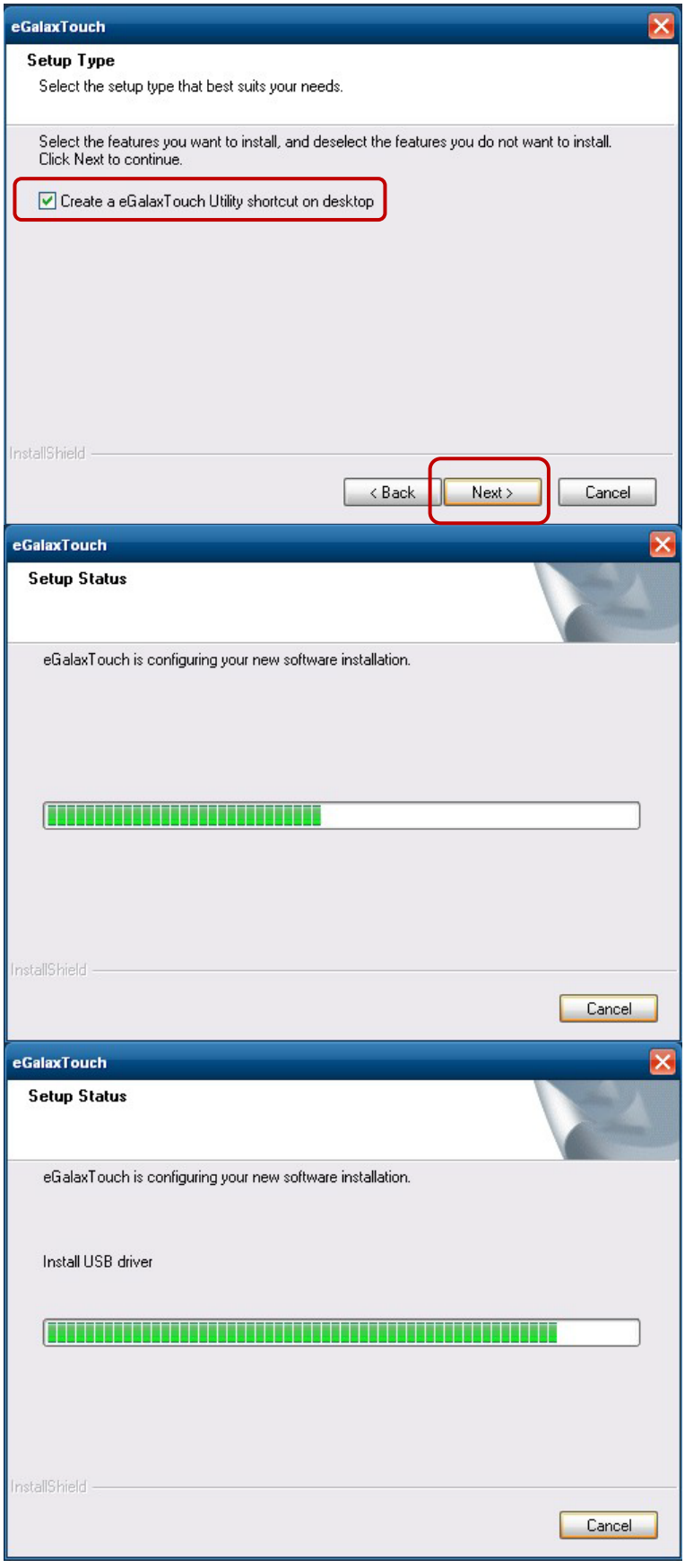
8. Click "**Next**".


eGalaxTouch
Choose Destination Location
Select folder where setup will install files.
Setup will install eGalaxTouch in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\eGalaxTouch
Browse...
InstallShield
< Back
Next >
Cancel

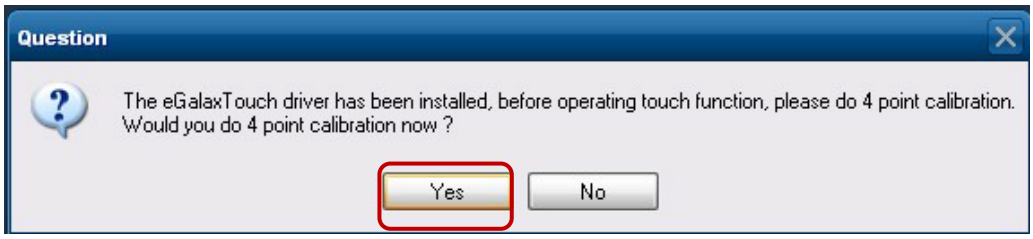
9. Click "**Next**".


eGalaxTouch
Select Program Folder
Please select a program folder.
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.
Program Folder:
eGalaxTouch
Existing Folders:
Accessories
Administrative Tools
Startup
InstallShield
< Back
Next >
Cancel

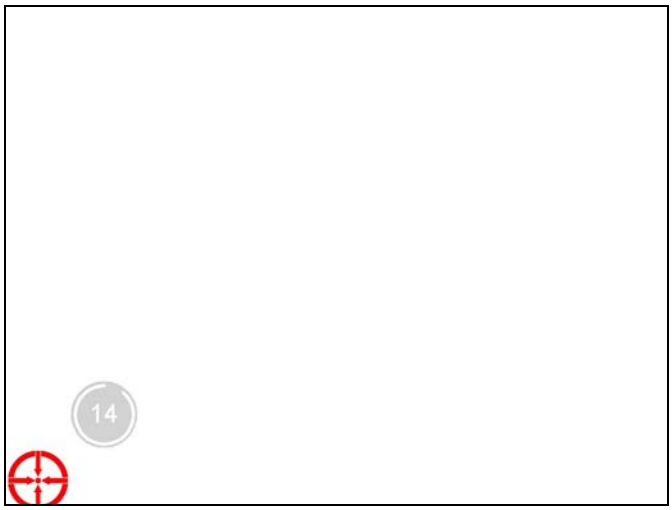
10. Select "**Create a eGalaxTouch Utility shortcut on desktop**", Click "**Next**".



12. Would you do 4 point calibration now? Click "**Yes**".


Question
The eGalaxTouch driver has been installed, before operating touch function, please do 4 point calibration.
Would you do 4 point calibration now ?
Yes
No

13. Do 4 points aligrment to match display.



14. Calibration utility.

6-2 MagStripe Card Reader Configuration Utility

The MagStripe Card Reader Configuration Utility is used to set up the output format of HID MSR

Installation

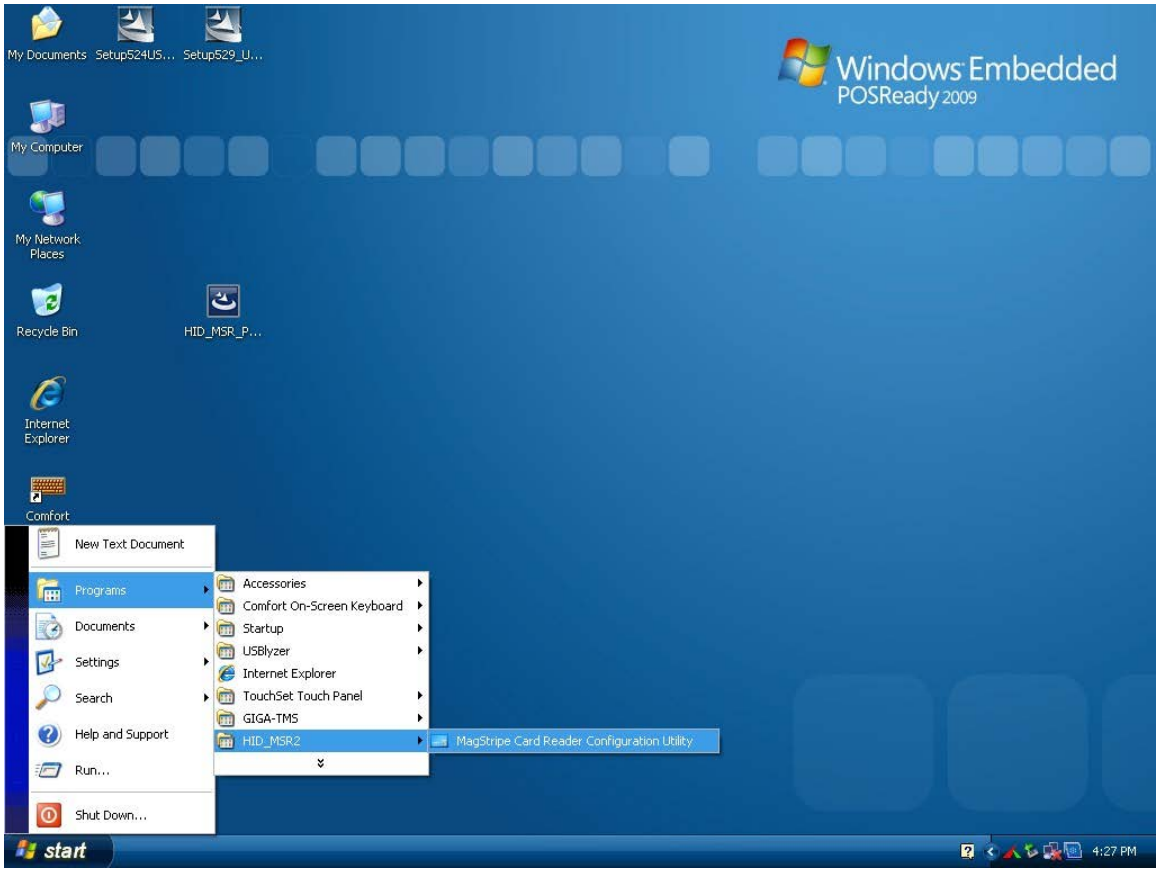
Below steps guide you how to install the Utility program.

- Insert the setup CD
- Run the **HID_MSR_PSW00003_V2_0_0.exe** setup file that is located in the Software folder of CD.
- Follow the wizard to complete the installation.

Launching Program

Below steps guide you how to load the **Utility** program.

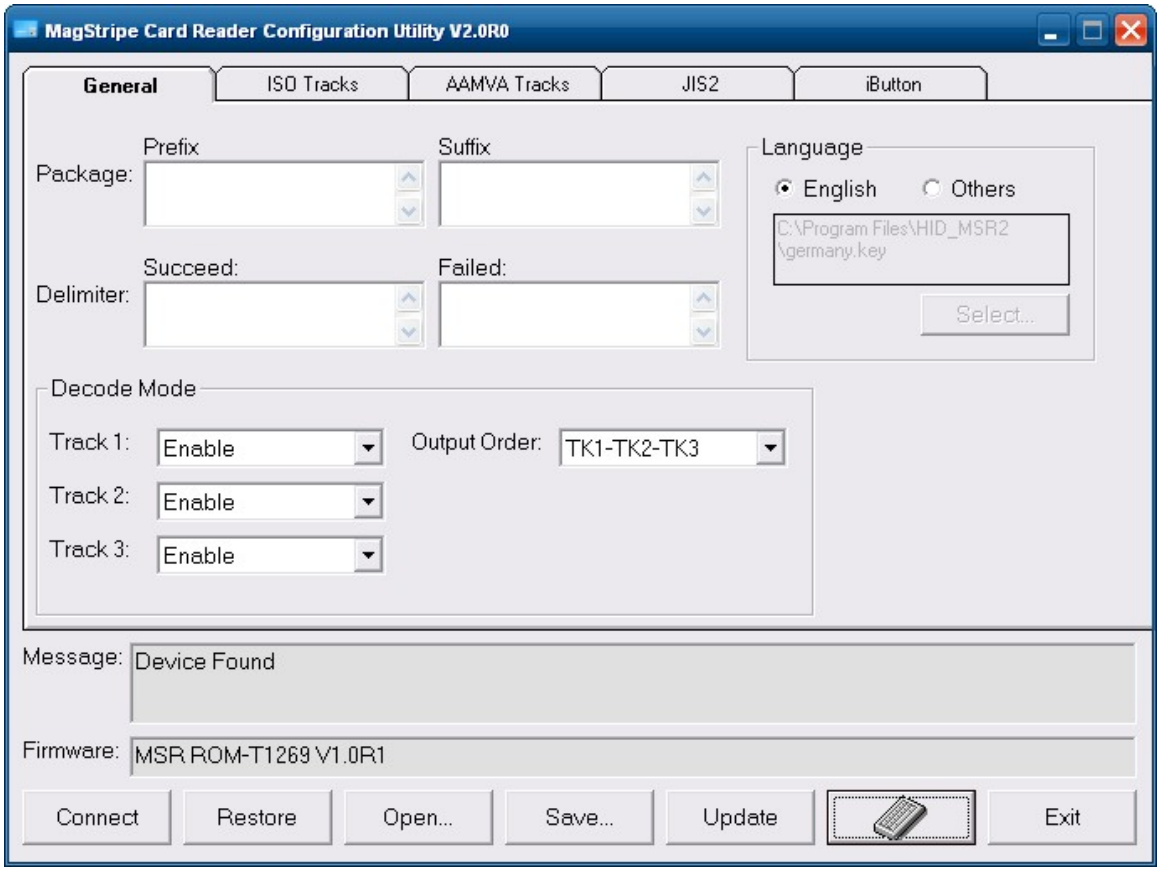
- From **Start/Programs**, click **HID_MSR2** folder
- Click **MagStripe Card Reader Configuration Utility** to launch the program.



- The utility program will detect the connected reader. If detected, all the input text boxes will be enabled.
- If the reader has not been connected to PC yet, please connect the reader and then click **Refresh** to get connected.

Configuration

Below is the main window of **Utility** program.



For the settings, there are:

- **Language**: The language defines the code positions of the keyboard. Each language should use its own settings. Wrong language selected will cause the wrong character displayed.
- **Prefix/Suffix:** Defines the data string which you would like to append in front or end of the MSR data string.
- **Error Message:** Indicates which track number cause the error.
- **Delimiter**: Indicates the swipe result.
- **ISO:** Define start and end sentinel character.
- **Decode Mode:** Determines the way of outputting the three tracks data.

Shown below is the data structure of the output string for MSR.

PP PR1 SS1 **TK1** ES1 SU1 PR2 SS2 **TK2** ES2 SU2 PR3 SS3 **TK3** ES3 SU3 SU DM

- **PP:** Prefix for package.
- **PR1:** Prefix for track 1.
- **SS1:** Start sentinel for track 1.
- **TK1:** Data for track 1, if error happens, using Error Message instead.
- **ES1:** End sentinel for track 1.
- **SU1:** Suffix for track 1.
- **PR2:** Prefix for track 2.
- **SS2:** Start sentinel for track 2.
- **TK2:** Data for track 2, if error happens, using Error Message instead.
- **ES2:** End sentinel for track 2.
- **SU2:** Suffix for track 2.
- **PR3:** Prefix for track 3.
- **SS3:** Start sentinel for track 3.
- **TK3:** Data for track 3, if error happens, using Error Message instead..
- **ES3:** End sentinel for track 3.
- **SU3:** Suffix for track 3.
- **SU:** Suffix for package.
- **DM:** Delimiter for the swipe result.

Prefix/Suffix

In default, the prefix and suffix settings are all keep blank. There are 4 kinds of prefix and suffix to be defined, which are:

- **Package:** For the prefix string, it is appended in the front of the whole MSR data. For the suffix, it is appended in the end of the whole MSR data. In most case, the suffix for package is always to be the “Enter” or “Tab” character. The max data length of the prefix and suffix for the package can be up to 127.
- **TK1:** For the prefix string, it is appended in the front of the start sentinel of track 2. For the suffix, it is appended in the end of the end sentinel of track 2. The max data length of the prefix and suffix for the TK1 can be up to 127.
- **TK2:** For the prefix string, it is appended in the front of the start sentinel of track 2. For the suffix, it is appended in the end of the end sentinel of track 2. The max data length of the prefix and suffix for the TK1 can be up to 127.
- **TK3:** For the prefix string, it is appended in the front of the start sentinel of track 3. For the suffix, it is appended in the end of the end sentinel of track 3. The max data length of the prefix and suffix for the TK1 can be up to 127.

ISO

This group defines the start and end sentinel for each track. The sentinel is always used to extract the track data from the whole MSR data string. The data length for each sentinel is fixed to one character. Because there is ISO standard that defining the start and end sentinel for the three tracks. For the compatible reason, please do not modify the default value if possible.

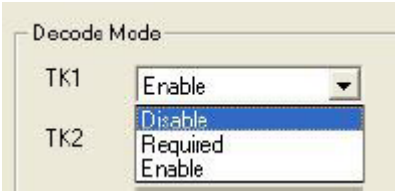
Decode Mode

For this group, it contains two kinds of settings, which are:

- Track Data Filtering: Determine which track to be, not to be output or needed to be output.
- Switch Output Order: Change the output order of track 1 ~ 3.

Track Data Filtering

Shown below is the filter setting for track 1. This provides a fool-proofing method in case of receiving unwanted or uncompleted track data.



These three filter settings are:

- **Enable:** If selected, the data of specified track will be packaged in the MSR data string. If the specified track data is not decoded, it will leave blank in the MSR data string.
- **Required:** If selected, which means the output MSR data string must contain the specified track data. If the specified track data is not decoded, even MSR data string contains other track data, it will still not to be output.
- **Disable:** If selected, the data of specified track will not be packaged in the MSR data string. No matter it is decoded or not.

Switch Output Order

Show below is the selection of the three track data output order (sequence). The default order is Track 1–Track 2–Track 3

There 6 orders allow to be selected. Please select one to fit your application needs.

Update Settings

Once complete the settings, click **Update** to update the settings to connected HID MSR reader.

Save Settings

To save the settings to a file, click **Save**; specify the file name and location to be saved.

Open Settings

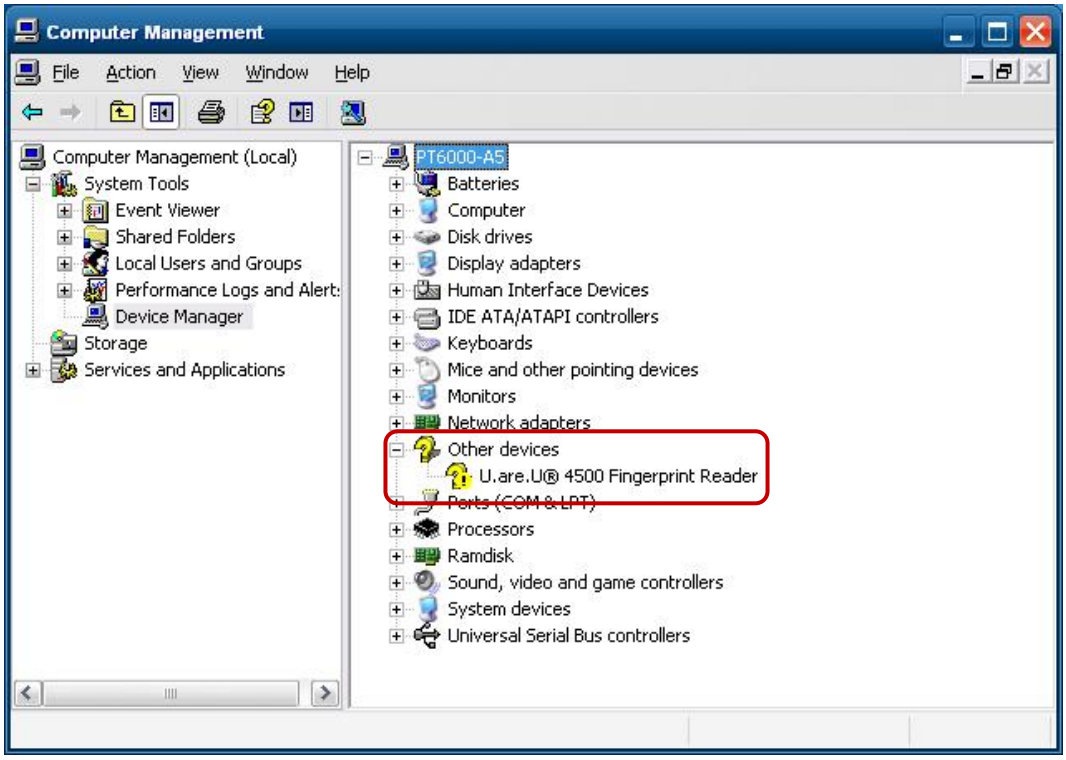
To load pre-saved settings, click **Open**, specify the settings file, and then click OK to load into program.

Restore MSR Reader Settings

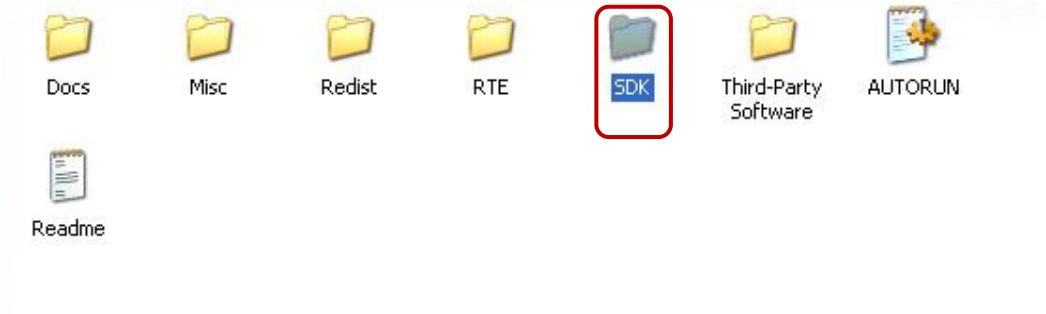
To load restore settings of connected MSR reader, click **Restore ES2:** End sentinel for track.

6-3 Fingerprint Reader

1. Check Fingerprint reader be detected by “Device manager “



2. Select SDK folder.

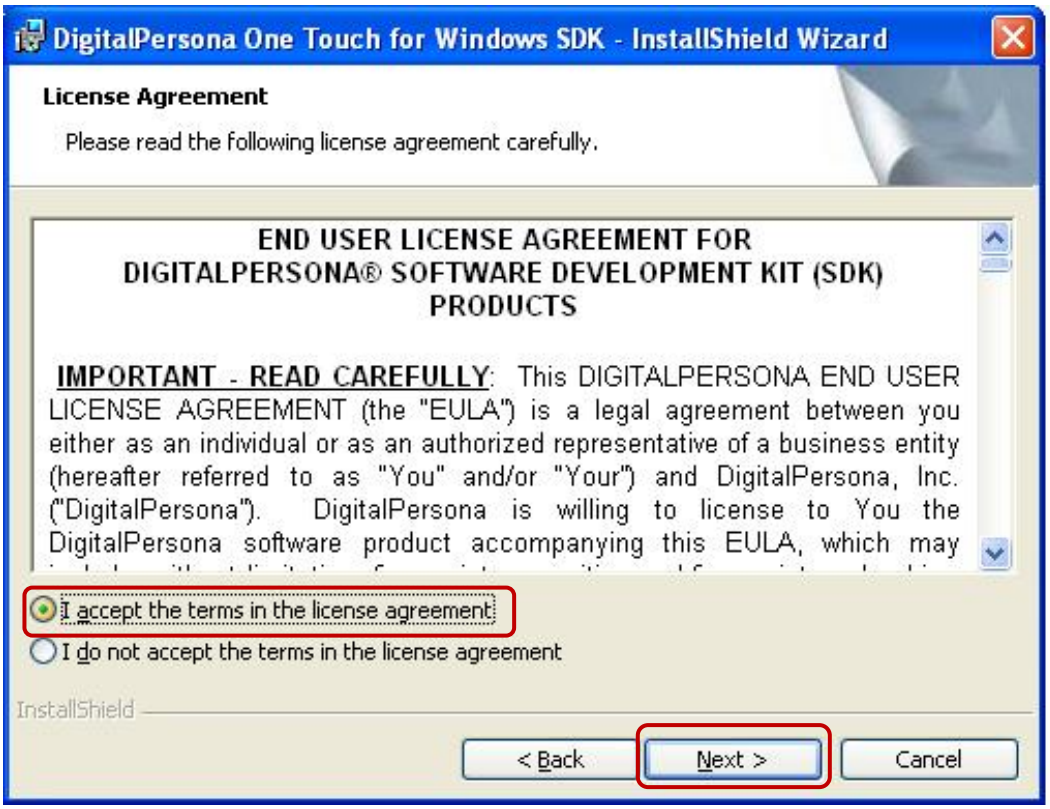


3. Run Setup.exe.

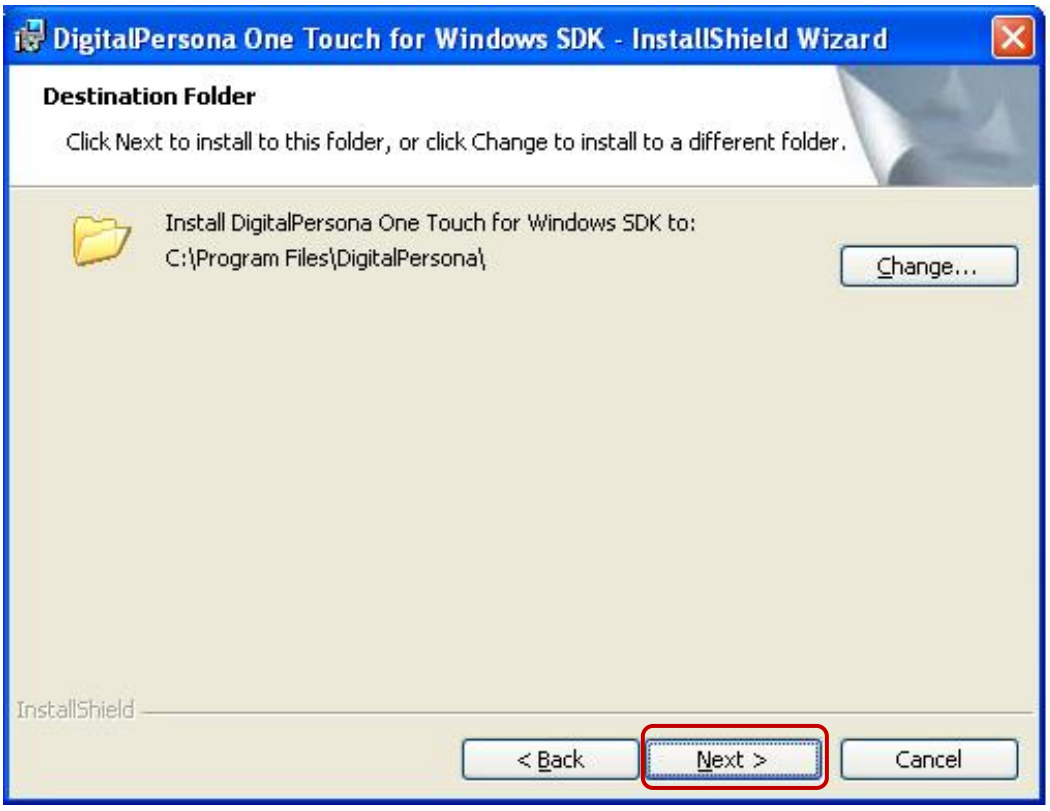
4. Click "**Next**".

DigitalPersona One Touch for Windows SDK - InstallShield Wizard
Welcome to the InstallShield Wizard for DigitalPersona One Touch for Windows SDK
The InstallShield(R) Wizard will install DigitalPersona One Touch for Windows SDK on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

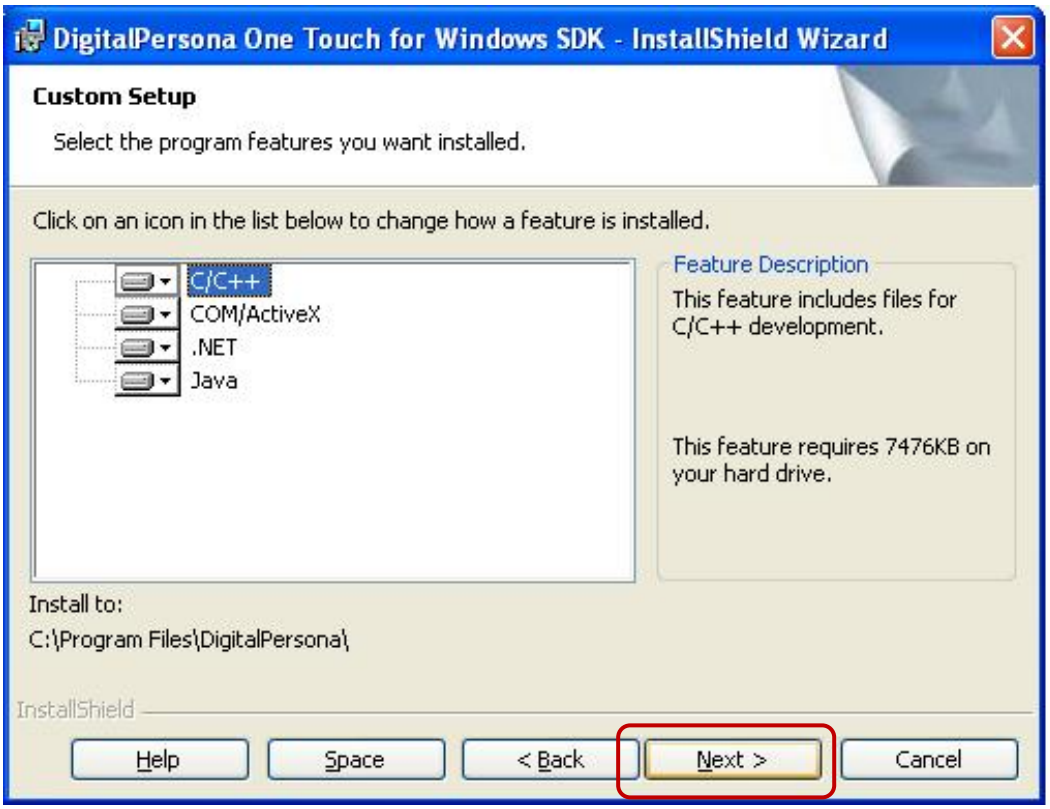
5. Select " **I accept the terms in the license agreement**" and click "**Next**".


DigitalPersona One Touch for Windows SDK - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
END USER LICENSE AGREEMENT FOR
DIGITALPERSONA® SOFTWARE DEVELOPMENT KIT (SDK)
PRODUCTS
IMPORTANT - READ CAREFULLY: This DIGITALPERSONA END USER LICENSE AGREEMENT (the "EULA") is a legal agreement between you either as an individual or as an authorized representative of a business entity (hereafter referred to as "You" and/or "Your") and DigitalPersona, Inc. ("DigitalPersona"). DigitalPersona is willing to license to You the DigitalPersona software product accompanying this EULA, which may
I accept the terms in the license agreement
I do not accept the terms in the license agreement
InstallShield
< Back
Next >
Cancel

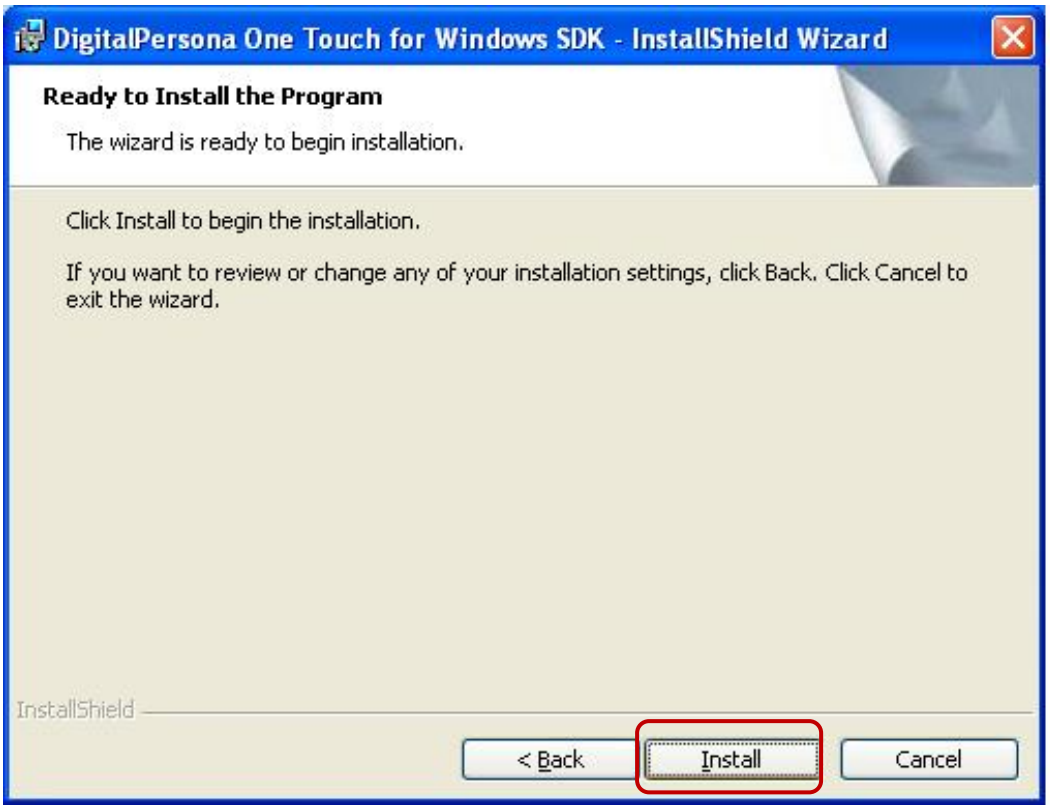
6. Click "**Next**".


DigitalPersona One Touch for Windows SDK - InstallShield Wizard
Destination Folder
Click Next to install to this folder, or click Change to install to a different folder.
Install DigitalPersona One Touch for Windows SDK to:
C:\Program Files\DigitalPersona\
Change...
InstallShield
< Back
Next >
Cancel

7. Click "**Next**".



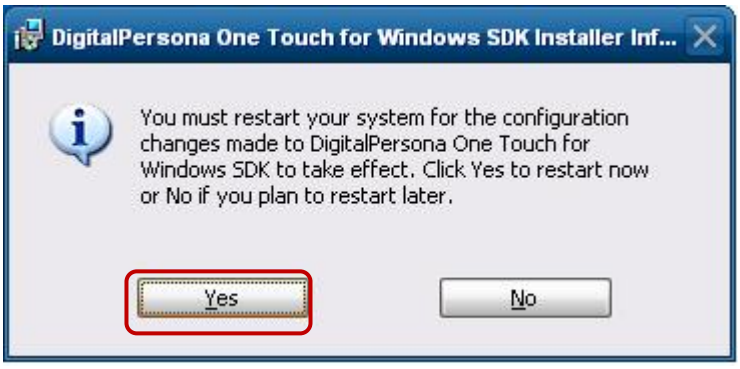
8. Click "**Install**".


DigitalPersona One Touch for Windows SDK - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

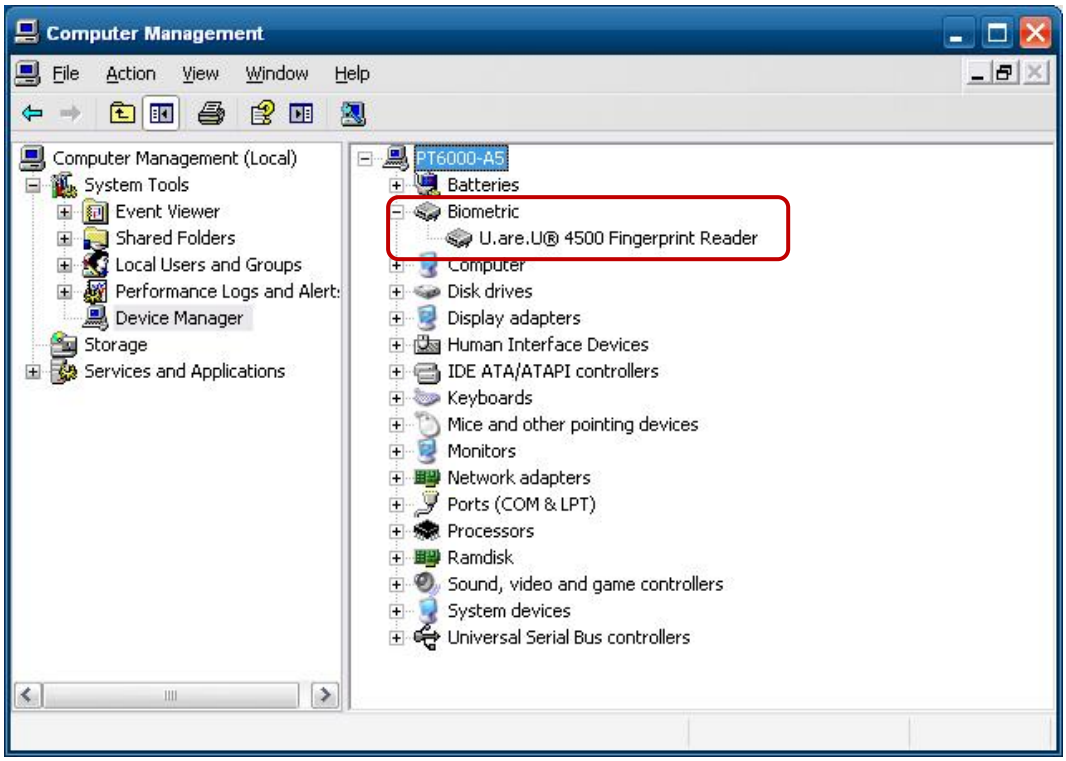
9. Click “**Finish**”.

DigitalPersona One Touch for Windows SDK - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed DigitalPersona One Touch for Windows SDK. Click Finish to exit the wizard.
< Back
Finish
Cancel

10. Restart systems.

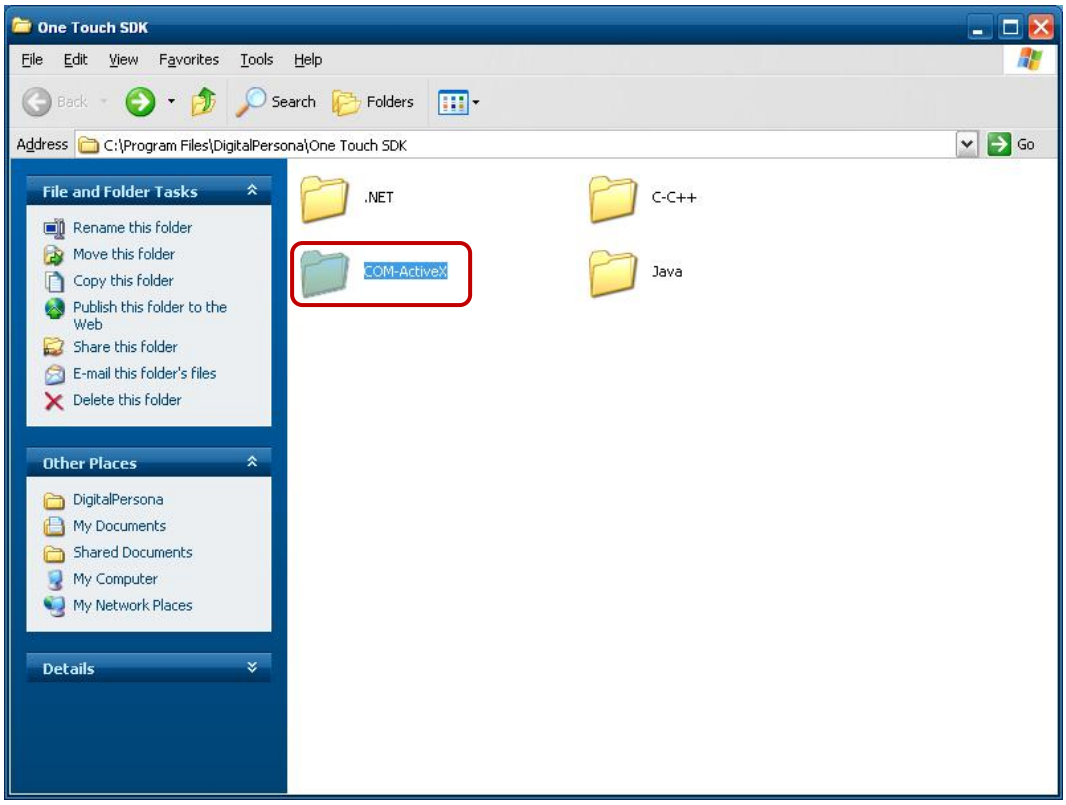

DigitalPersona One Touch for Windows SDK Installer Inf...
You must restart your system for the configuration changes made to DigitalPersona One Touch for Windows SDK to take effect. Click Yes to restart now or No if you plan to restart later.
Yes
No

11. Check Fingerprint reader in Device Manager.

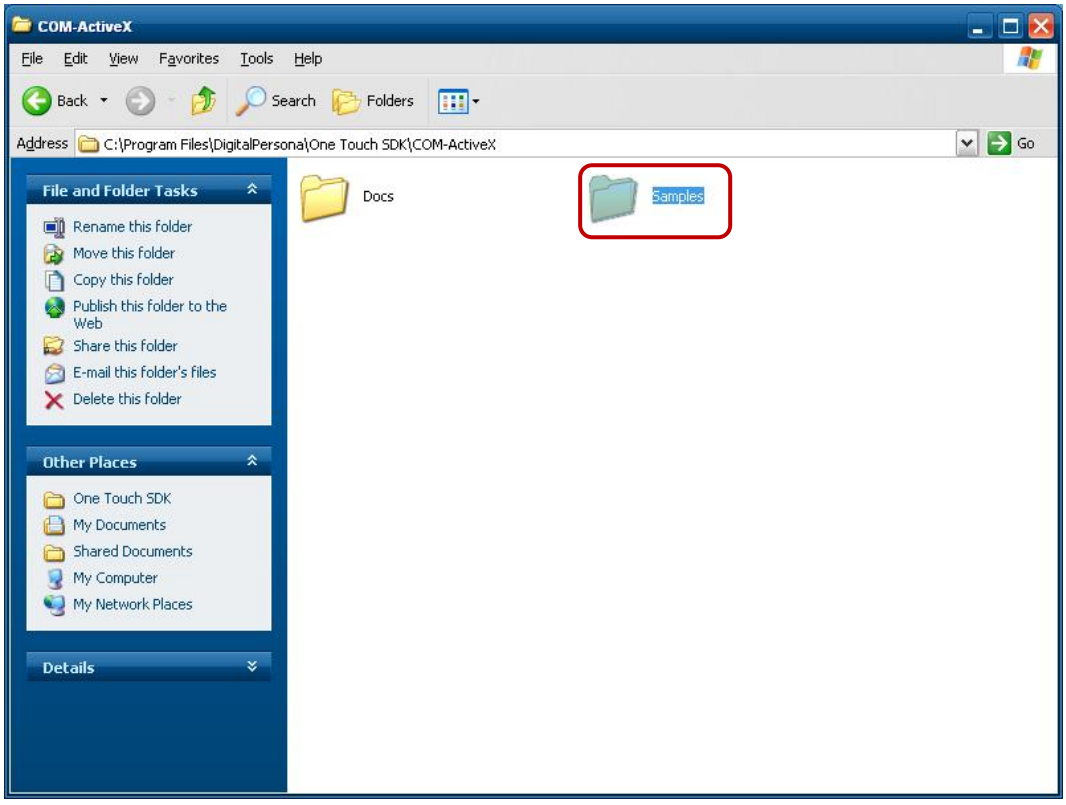


12. Launch Fingerprint reader from start menu

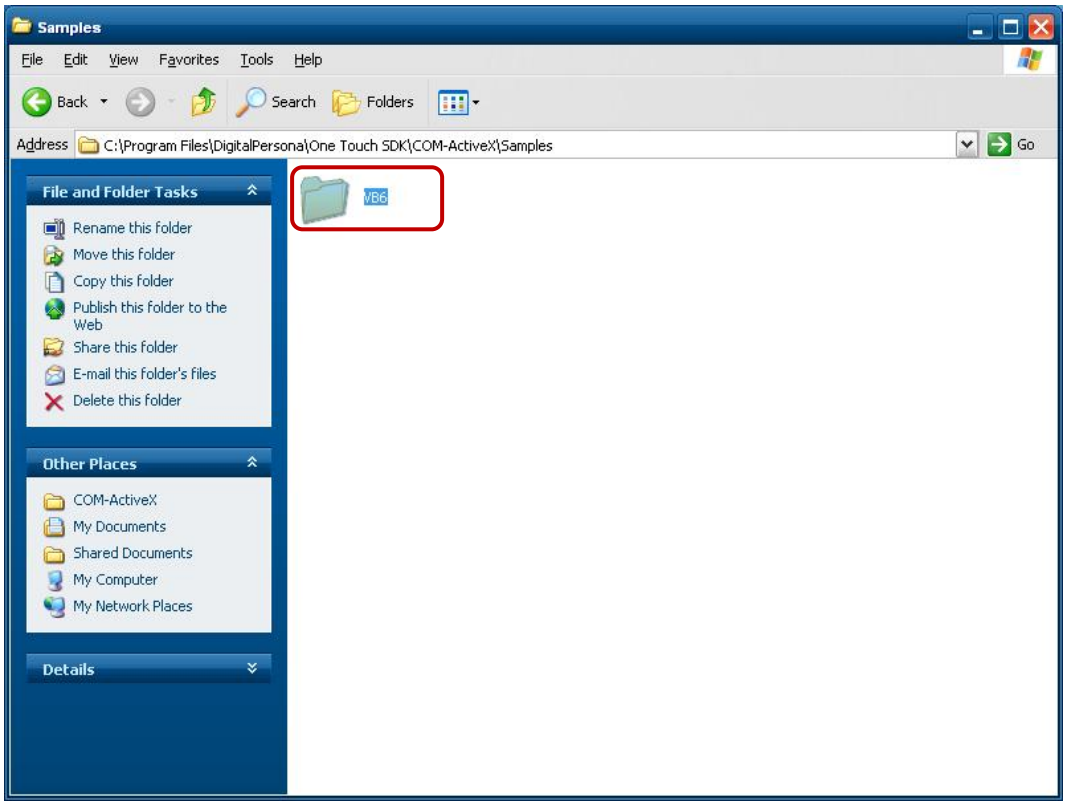
13. Select "**COM-ActiveX**"



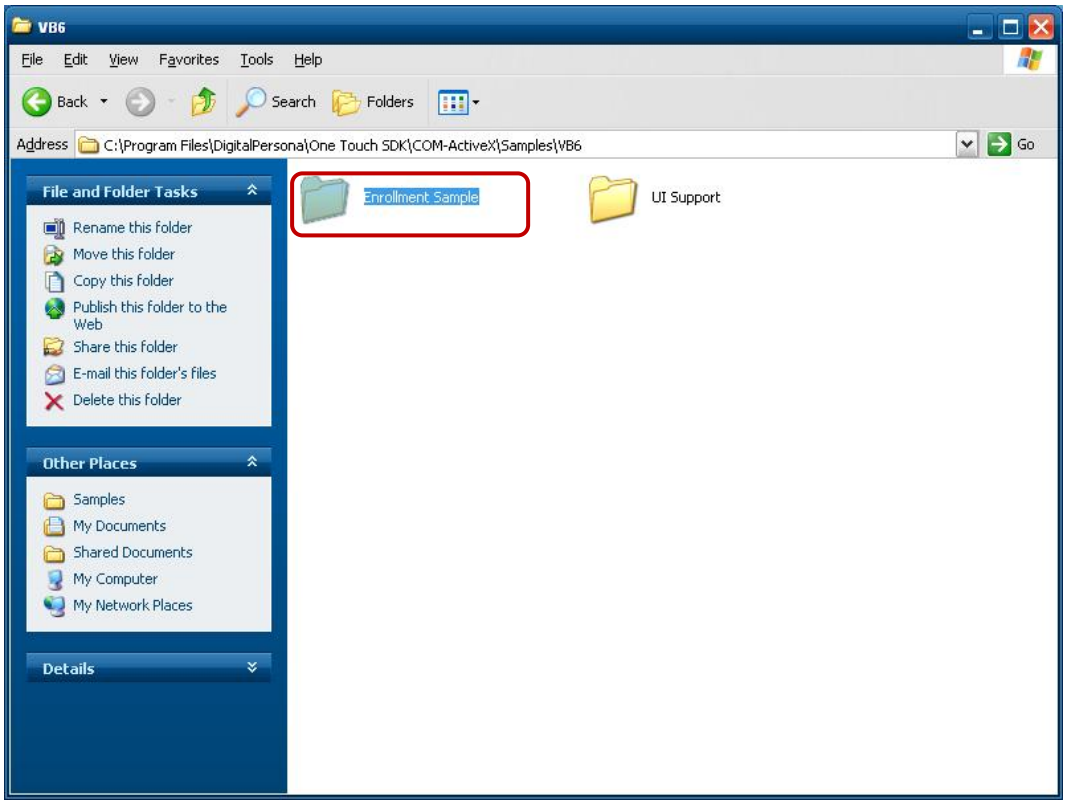
14. Select "**Samples**"



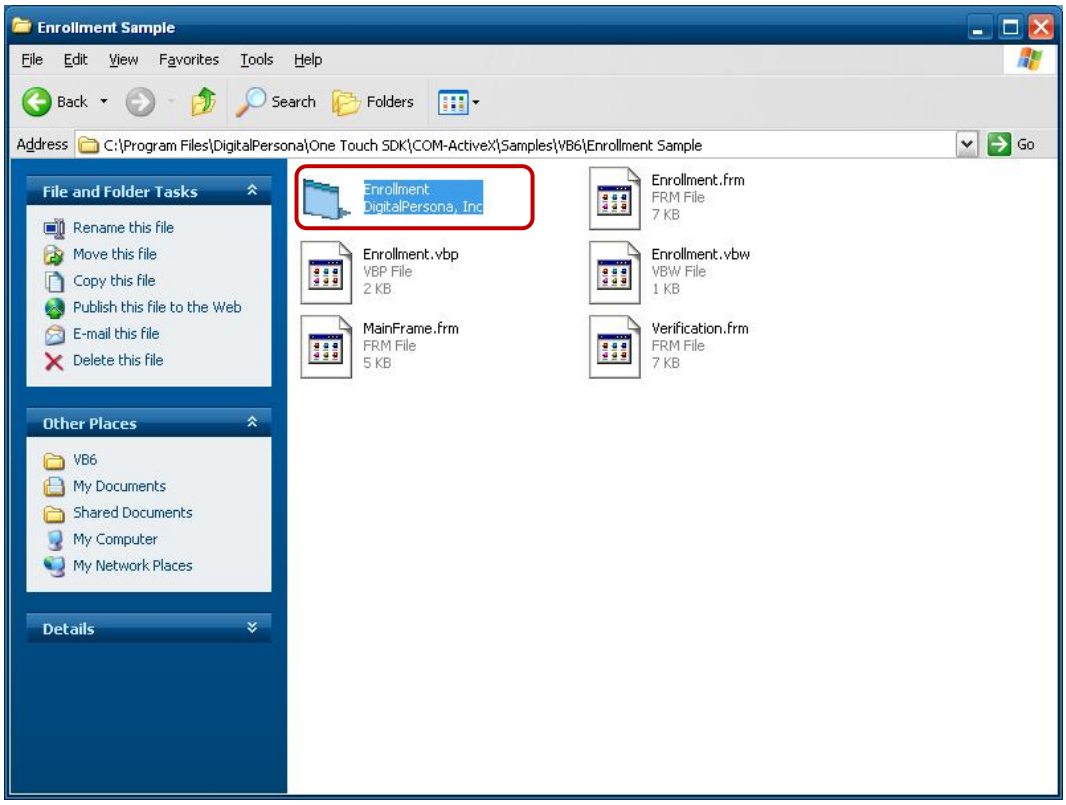
15. Select "**VB6**'.



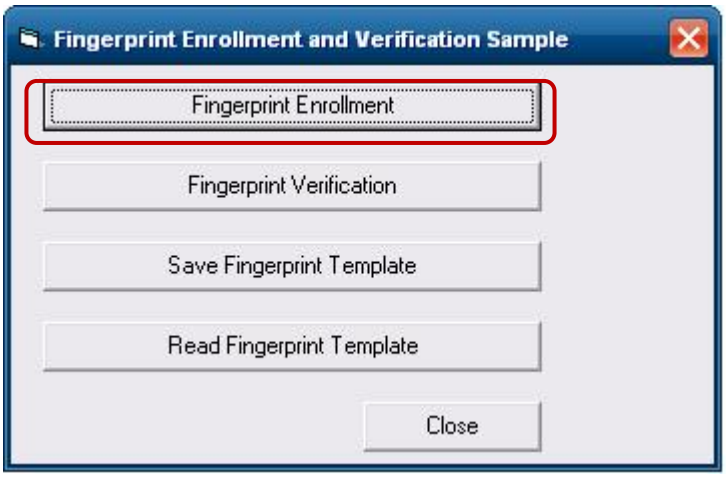
16. Select "**Enrollment Sample**".

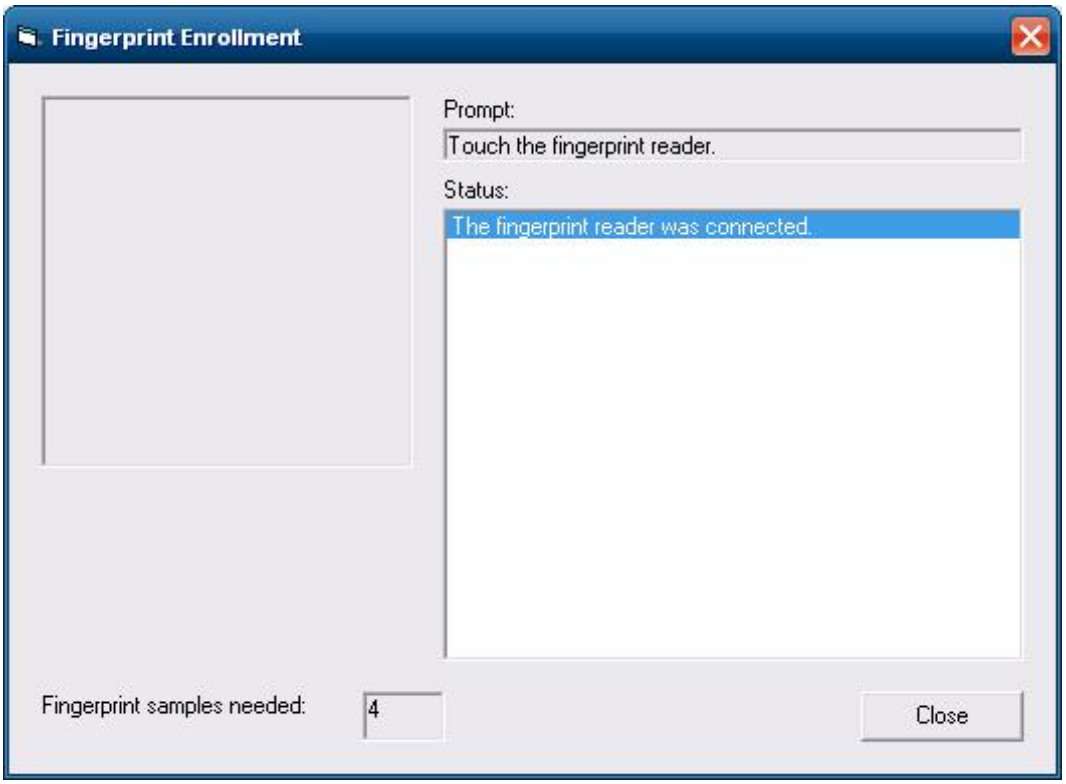


17. Enroll the fingerprint by the "**Enrollment**"



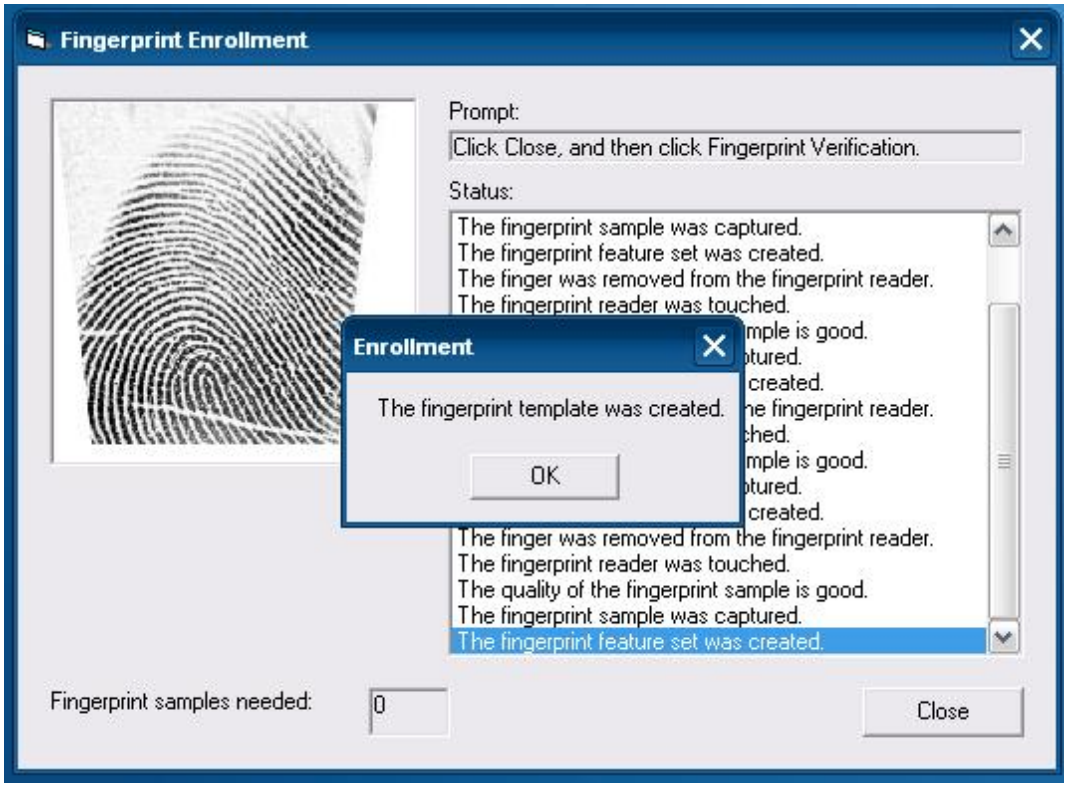
18. Select "**Fingerprint Enrollment**"





19. Put your finger on fingerprint reader and follow the direction to enroller your fingerprint, it need scan your fingerprint 4 times

20. After enroller finish it will popup a dialog box

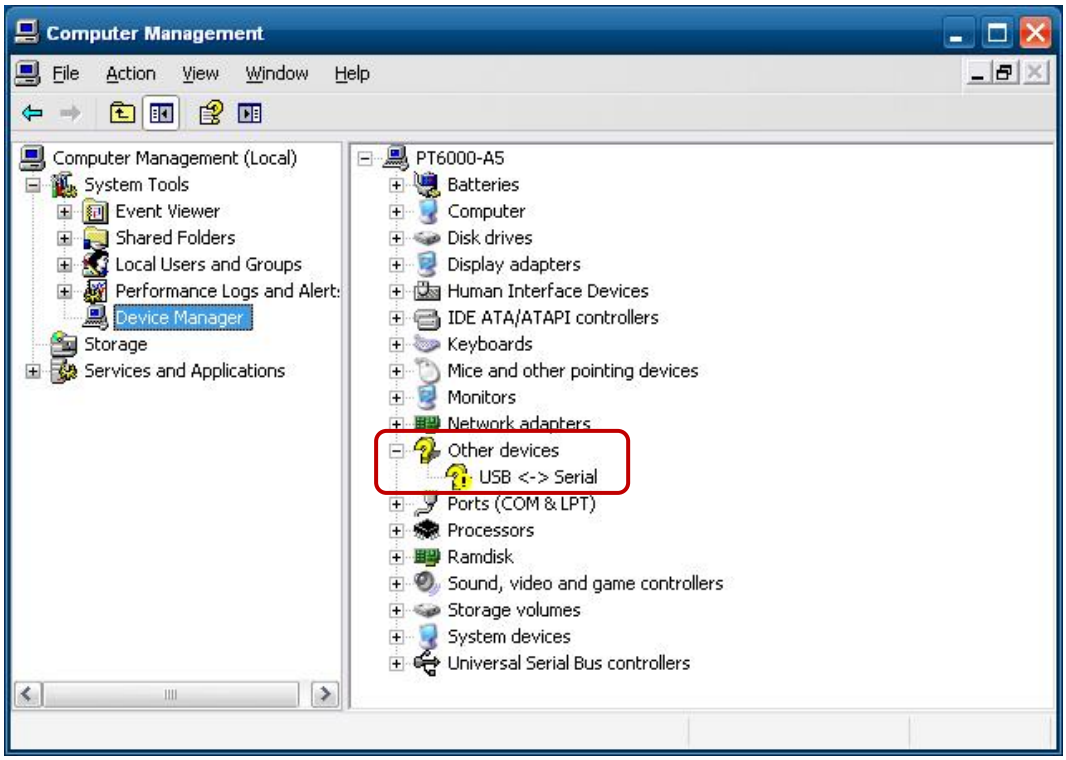

Fingerprint Enrollment
Prompt:
Click Close, and then click Fingerprint Verification.
Status:
The fingerprint sample was captured.
The fingerprint feature set was created.
The finger was removed from the fingerprint reader.
The fingerprint reader was touched.
Enrollment
The fingerprint template was created.
OK
The finger was removed from the fingerprint reader.
The fingerprint reader was touched.
The quality of the fingerprint sample is good.
The fingerprint sample was captured.
The fingerprint feature set was created.
Fingerprint samples needed:
0
Close

6-4 RFID

1. Install (Operating System: Microsoft Windows POSReady 2009)

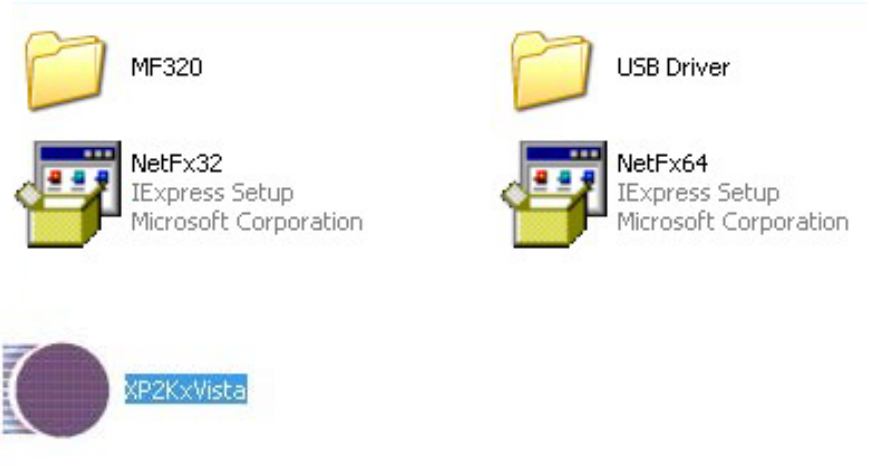
1.1 Check the Device Manager to verify the status of RFID reader.

Computer Management -> Device Manager -> Other devices (The device will show a question mark if the installation is not done properly.)

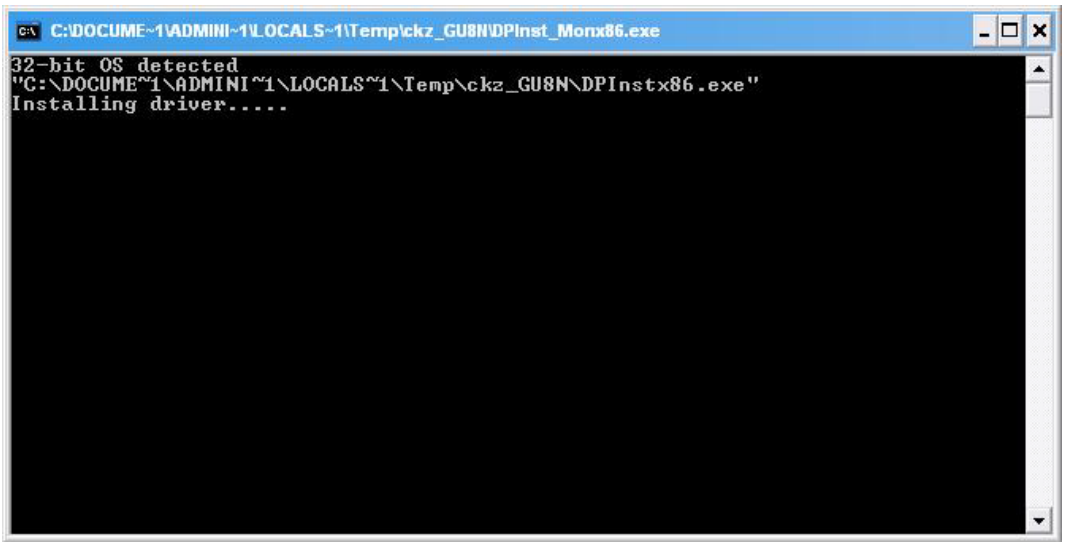


1.2 Install RFID driver，file name：XP2KxVista.exe

2-1 Path:\USB Driver\ XP2KxVista.exe

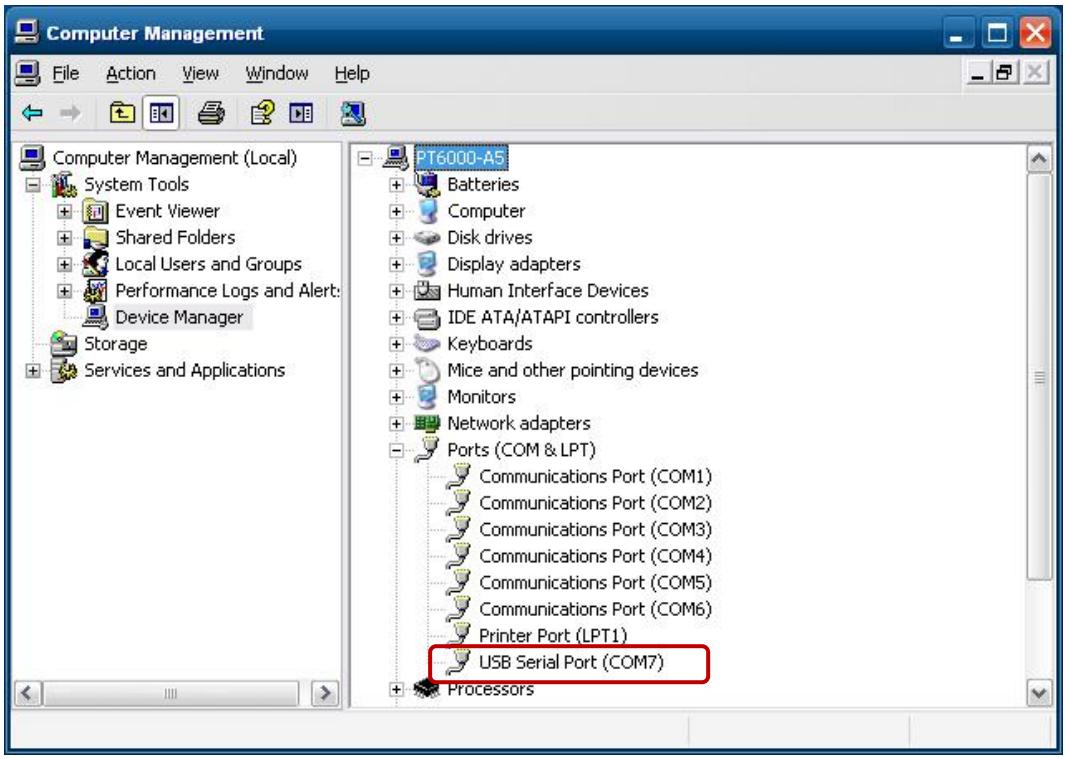


1.2.1 After clicking" **Next**", A pop up console window appears as below.



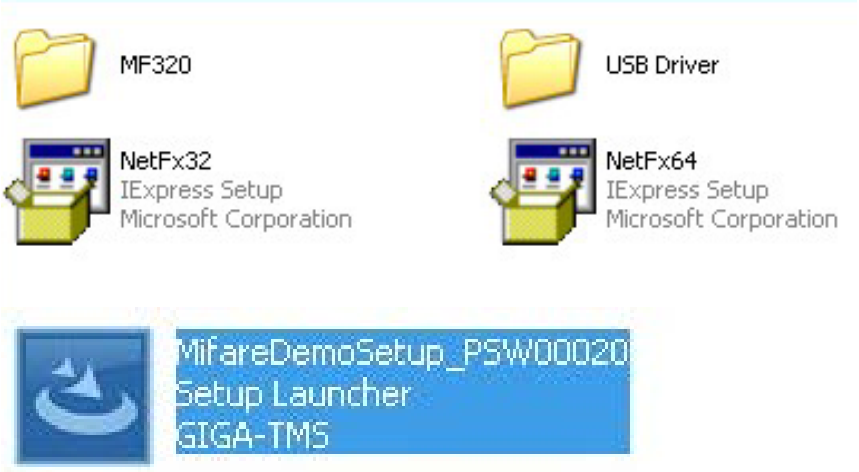
1.2.2 Check the Device Manager to verify the status of RFID reader.

Computer Management -> Device Manager -> Ports (COM & LPT)

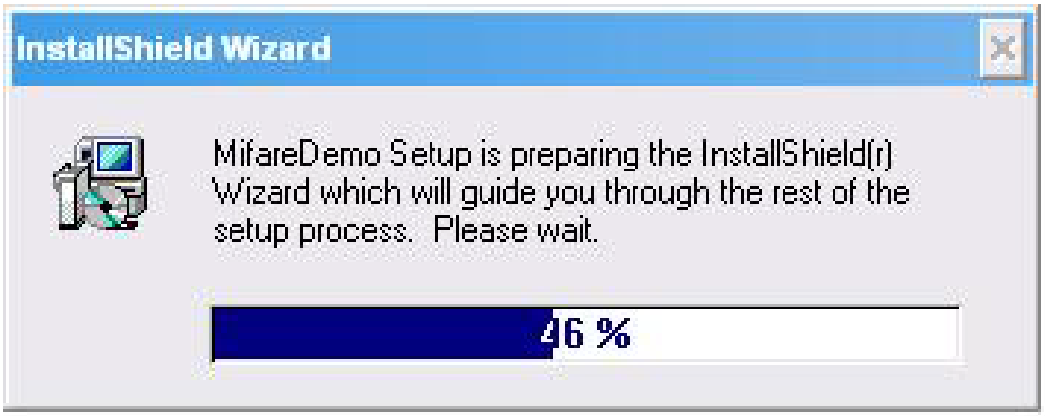


1.3 Install RFID utility

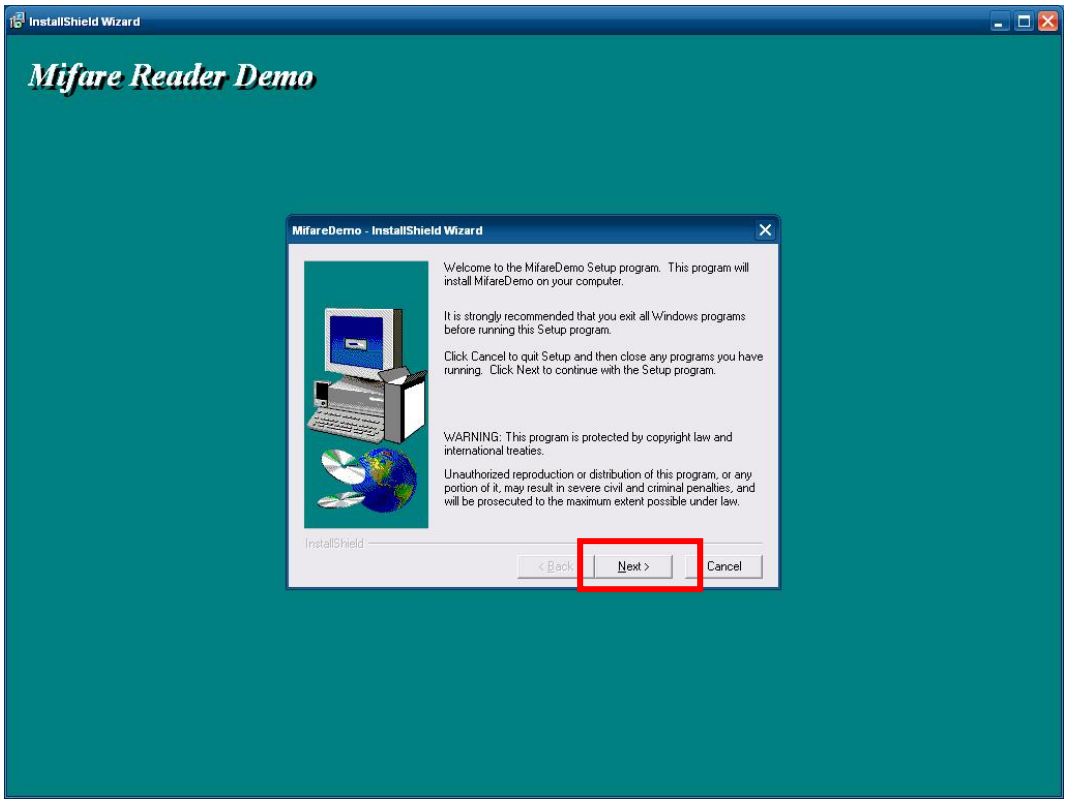
MifareDemoSetup_PSW00020.exe
3-1 Path:\MF320\MifareDemoSetup_PSW00020.exe



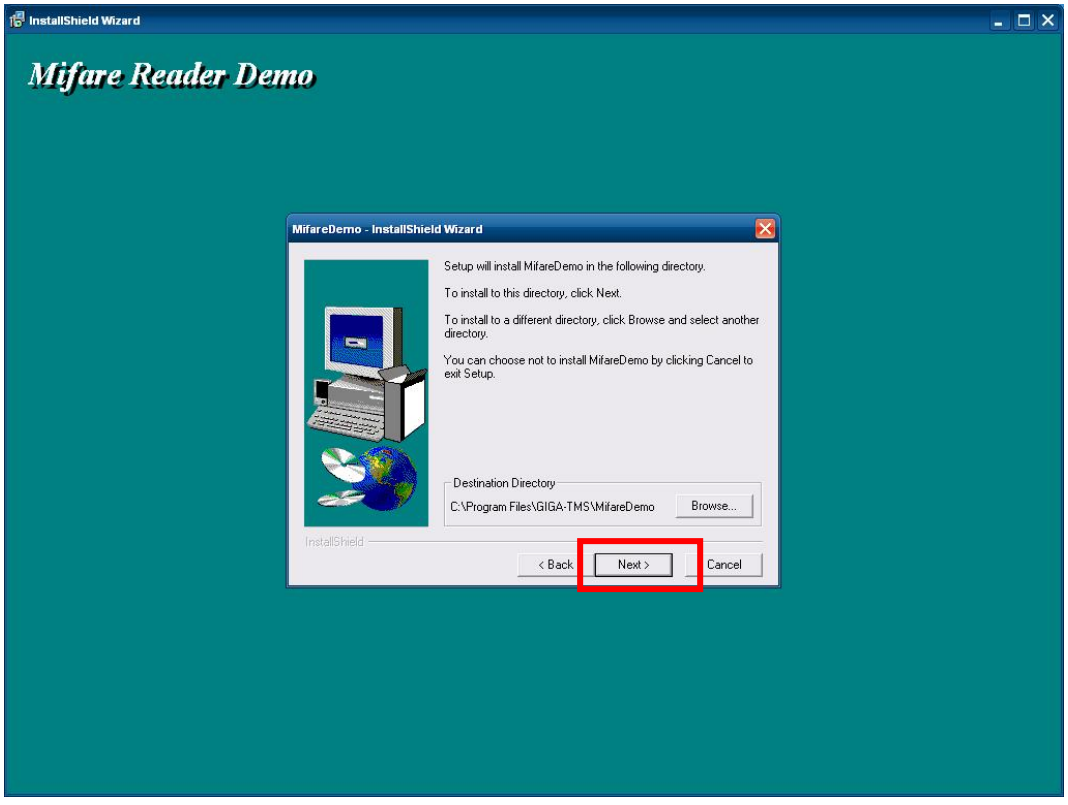
1.3.1 InstallShield Wizard will be activated.


InstallShield Wizard
MifareDemo Setup is preparing the InstallShield(r) Wizard which will guide you through the rest of the setup process. Please wait.
46 %

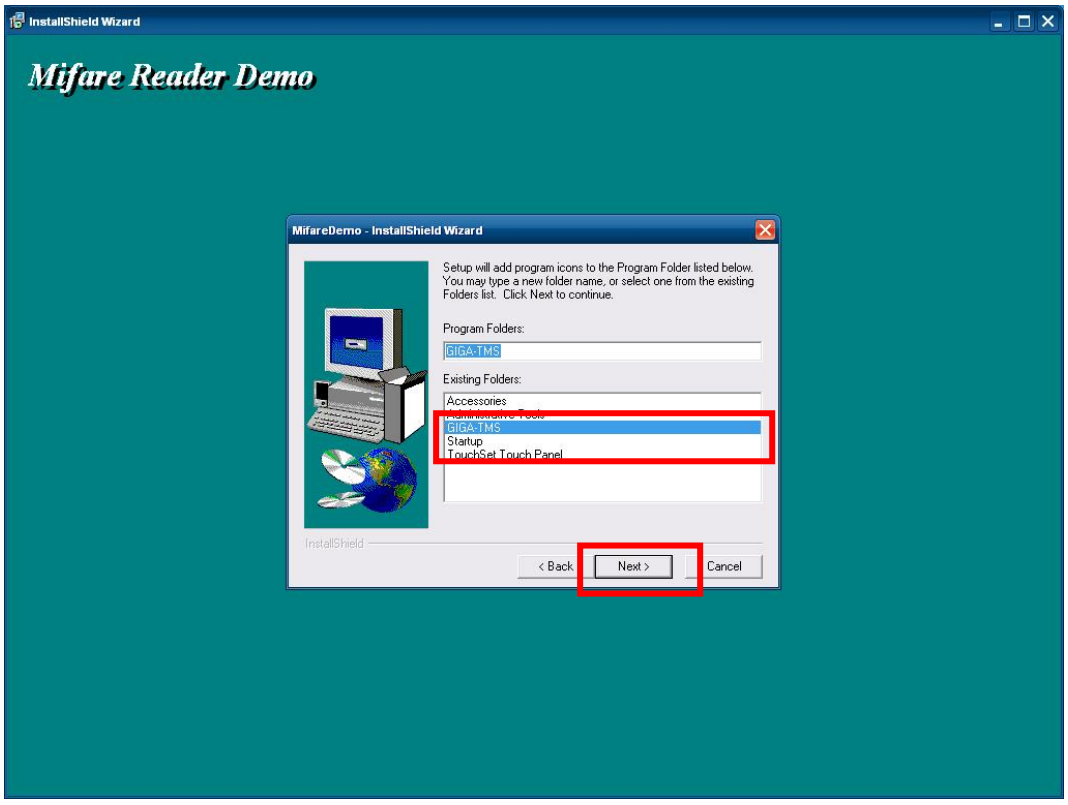
1.3.2 Click “**Next**”.


InstallShield Wizard
Mifare Reader Demo
MifareDemo - InstallShield Wizard
Welcome to the MifareDemo Setup program. This program will install MifareDemo on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
InstallShield
< Back
Next >
Cancel

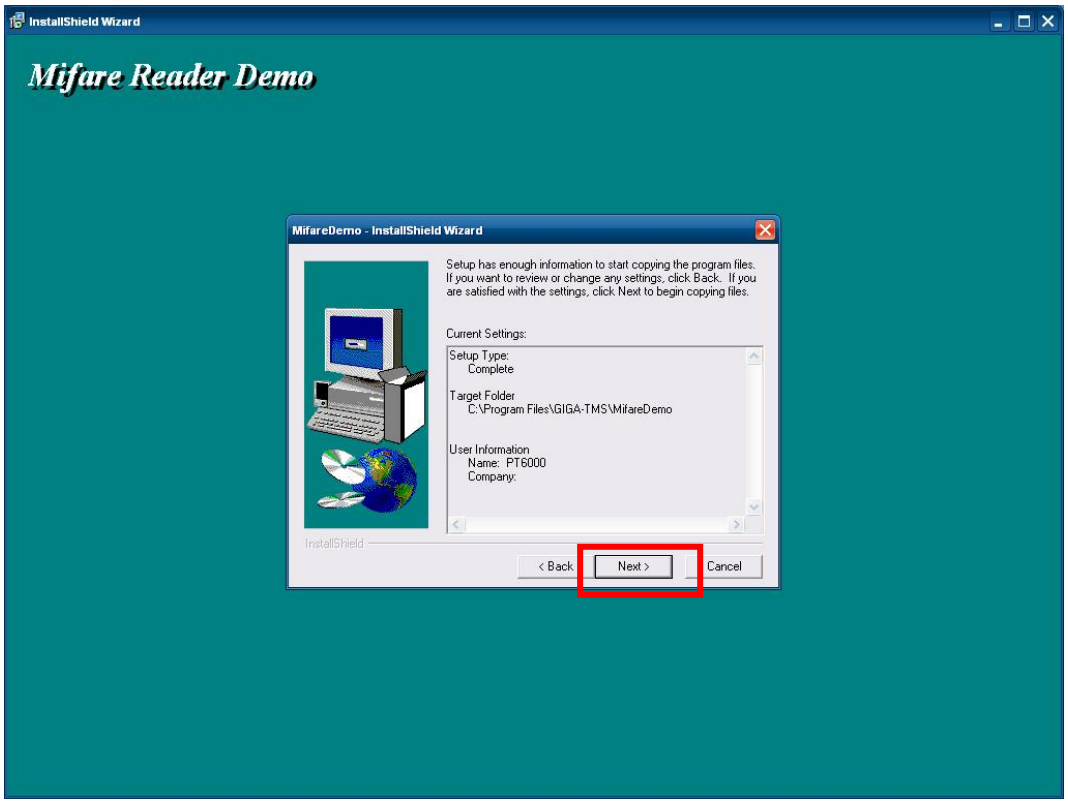
1.3.3 Click “**Next**”.


InstallShield Wizard
Mifare Reader Demo
MifareDemo - InstallShield Wizard
Setup will install MifareDemo in the following directory.
To install to this directory, click Next.
To install to a different directory, click Browse and select another directory.
You can choose not to install MifareDemo by clicking Cancel to exit Setup.
Destination Directory
C:\Program Files\GIGA-TMS\MifareDemo
Browse...
InstallShield
< Back
Next >
Cancel

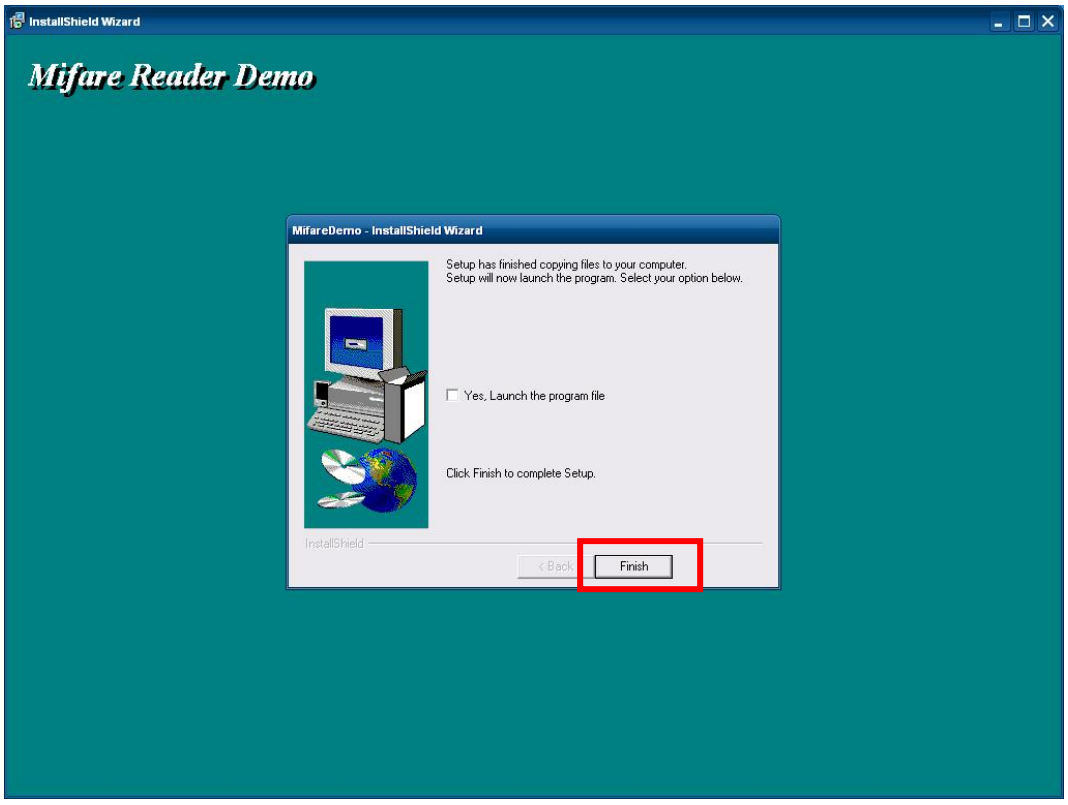
1.3.4 Click “**Giga-TMS**” & “**Next**”.


InstallShield Wizard
Mifare Reader Demo
MifareDemo - InstallShield Wizard
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing Folders list. Click Next to continue.
Program Folders:
GIGA-TMS
Existing Folders:
Accessories
GIGA-TMS
Startup
TouchSet Touch Panel
InstallShield
< Back
Next >
Cancel

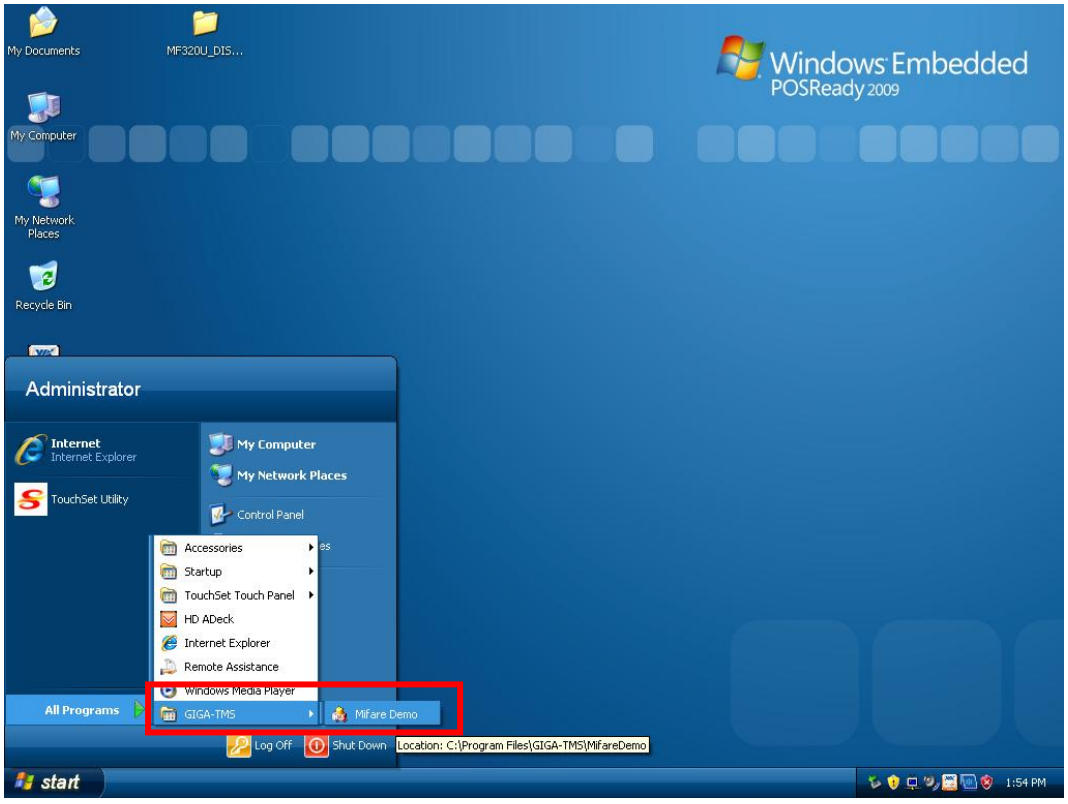
1.3.5 Click “**Next**”.


InstallShield Wizard
Mifare Reader Demo
MifareDemo - InstallShield Wizard
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Setup Type:
Complete
Target Folder
C:\Program Files\GIGA-TMS\MifareDemo
User Information
Name: PT6000
Company:
InstallShield
< Back
Next >
Cancel

1.3.6 Click "**Finish**"

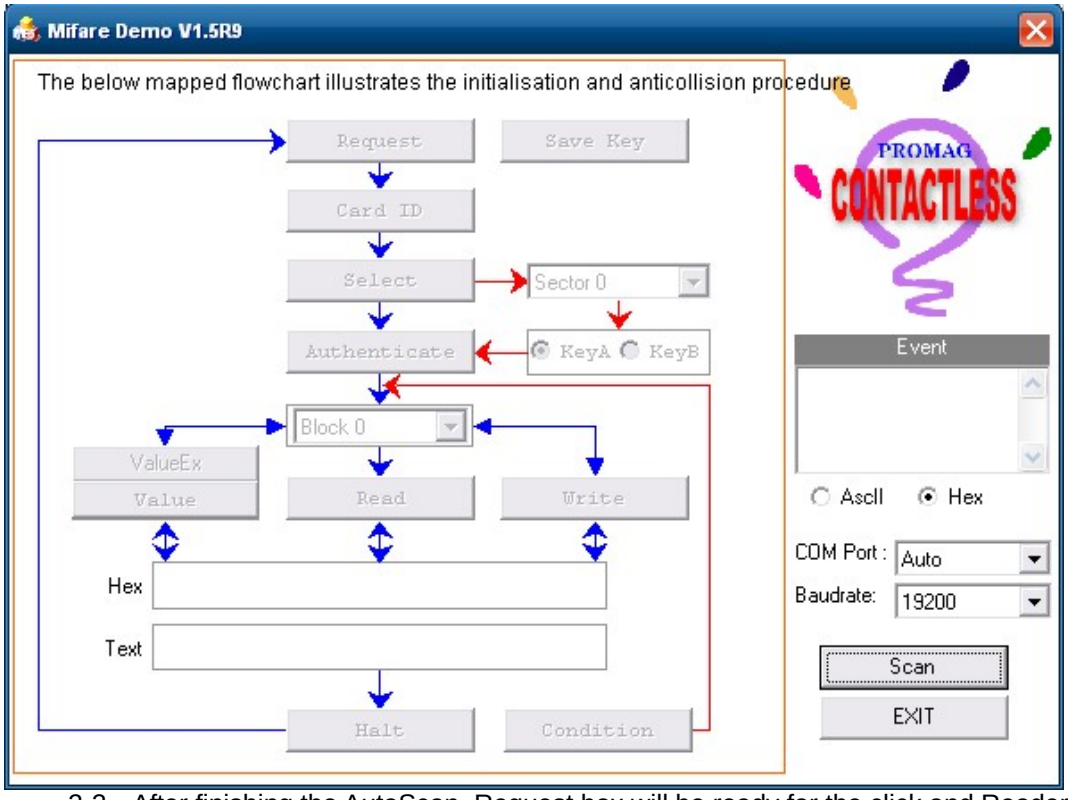

InstallShield Wizard
Mifare Reader Demo
MifareDemo - InstallShield Wizard
Setup has finished copying files to your computer.
Setup will now launch the program. Select your option below.
Yes, Launch the program file
Click Finish to complete Setup.
InstallShield
< Back
Finish

2. Run RFID demo program. Start -> All Programs -> GIGA-TMS -> **Mifare Demo**

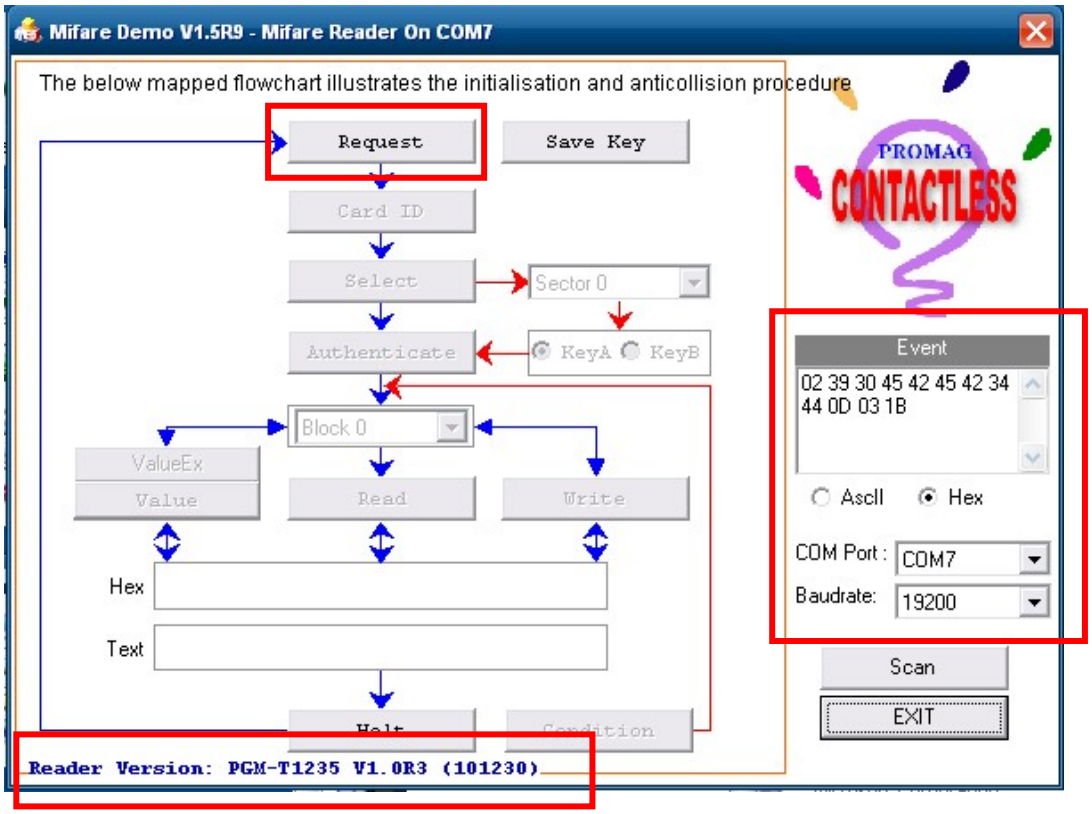


2-1 Run "**Auto Scan**" Demo AP will detect the RFID reader automatically.

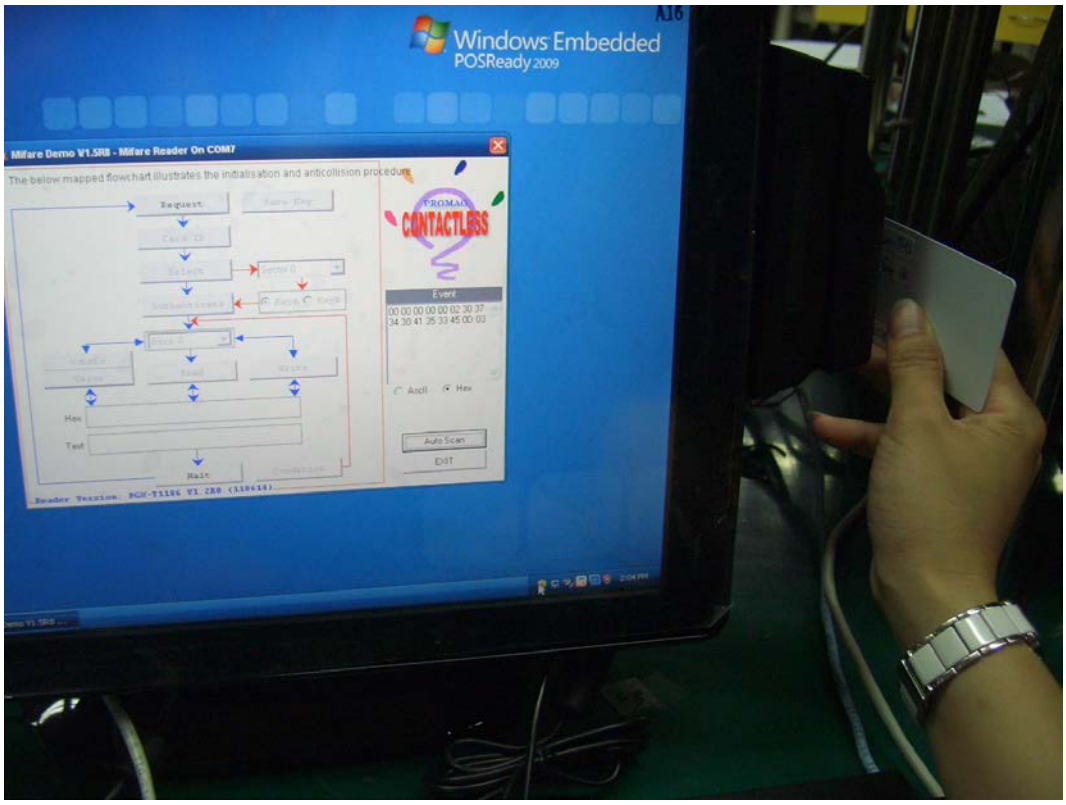
Or select the RFID COM port



2-2 After finishing the AutoScan, Request box will be ready for the click and Reader Version will show on the position as marked. (Reader Version: PGM-T1235 V1.0R3 (101230) Place Mifare Card to the RFID reader area. Event Dialog window gets the data from the Mifare Card

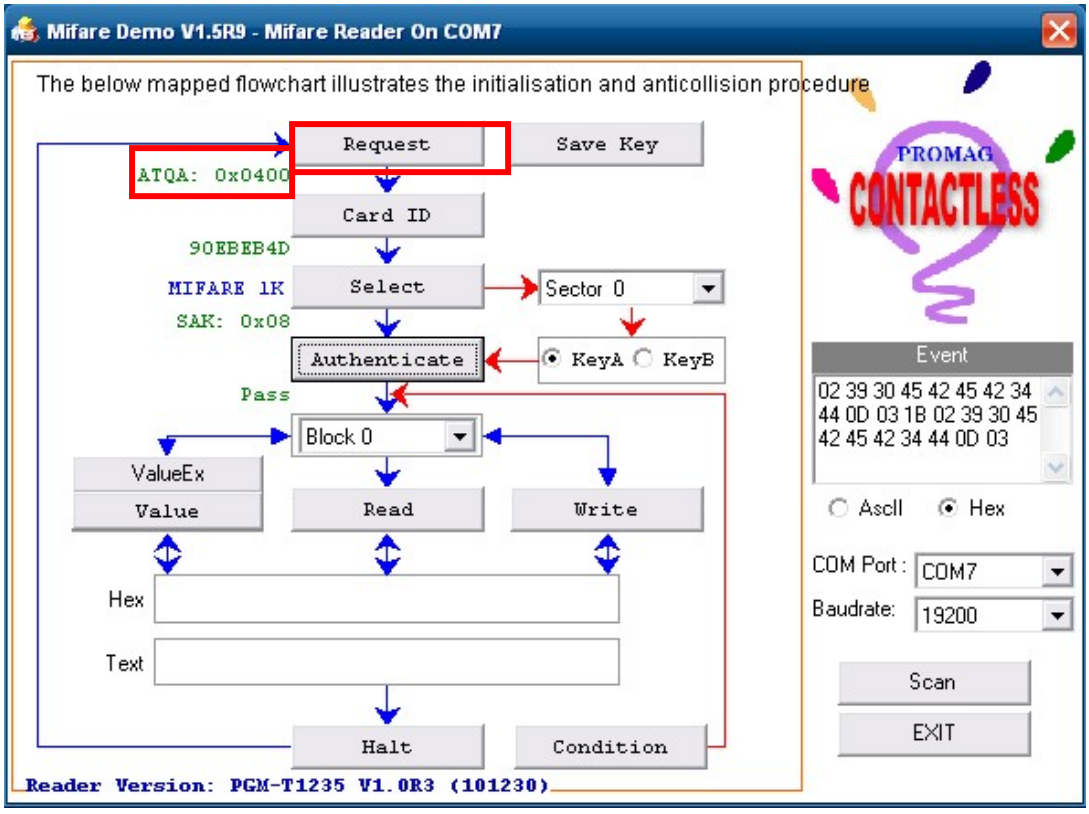


Place the RFID card on the RFID reader.

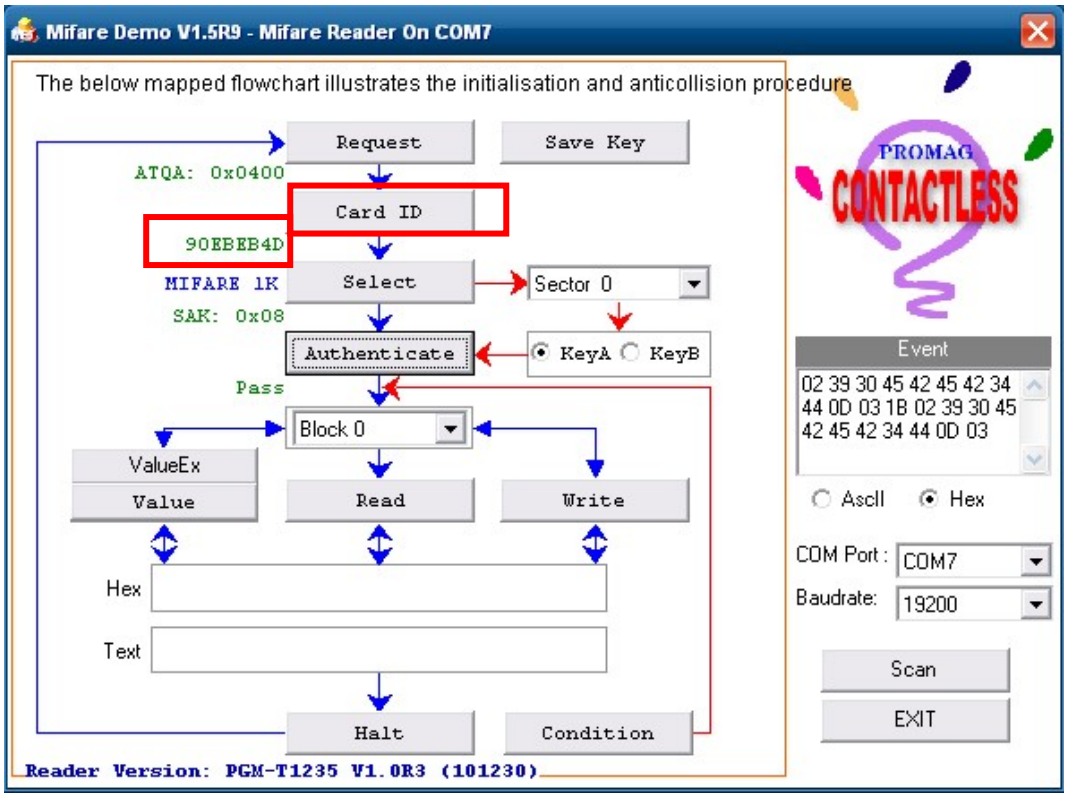


2-3 **Card type** will be recognized when you click "**Request**".

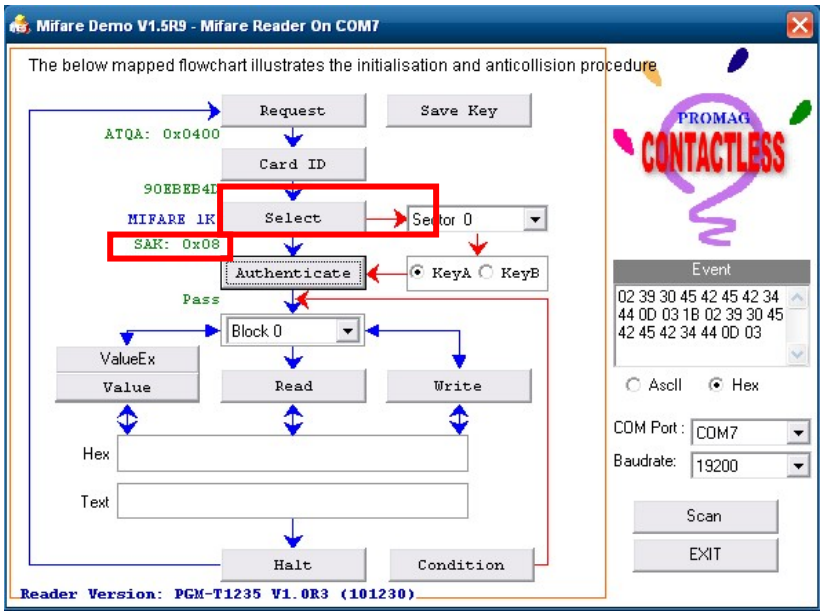
(Your Mifare card should be placed on the RFID reader area.)



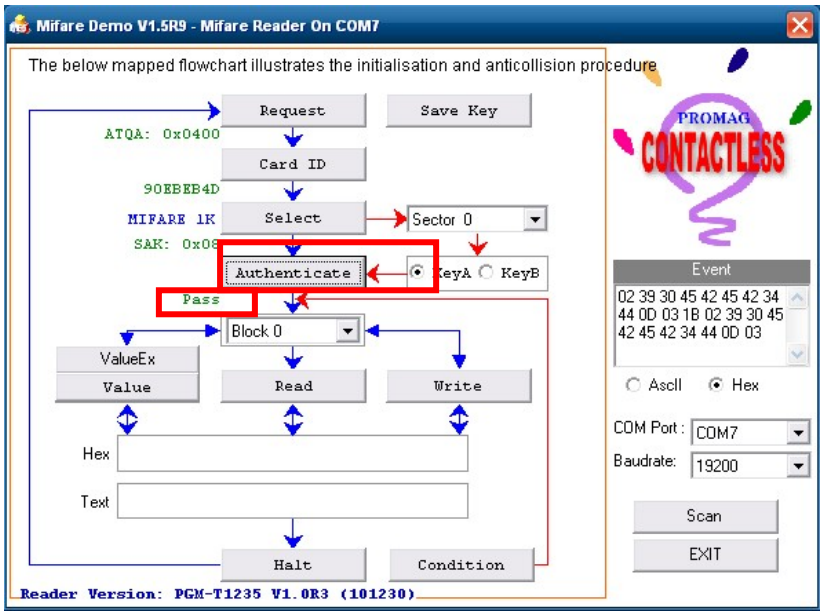
2-4 **Card ID** will be recognized when you click "**Card ID**".



2-5 **SAK** will be read when you click "**Select**".



2-6 The result will show when you click "**Authenticate**".



6-5 Internal VFD

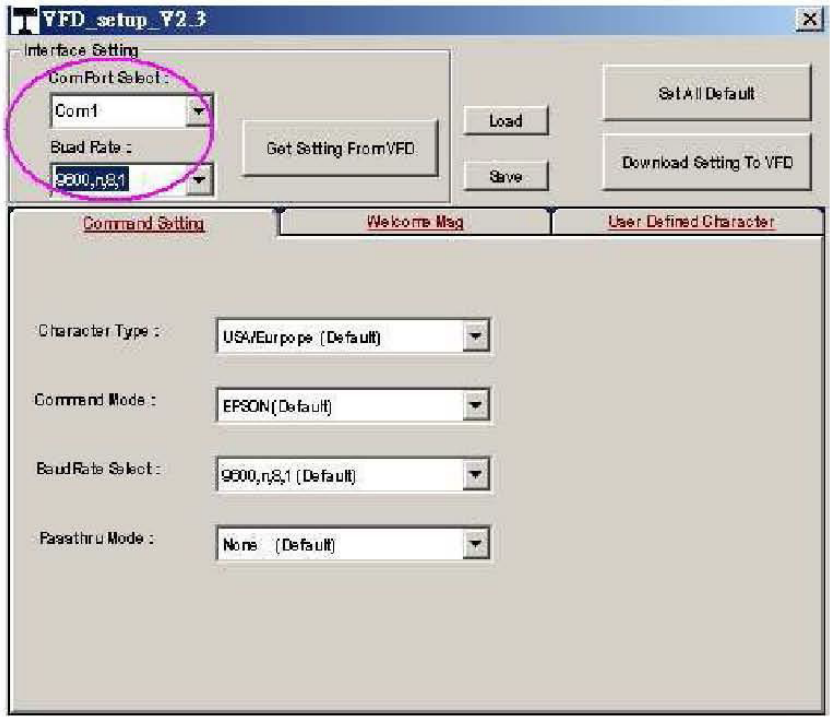
Specification

General	Display Method	Vacuum Fluorescent Display(blue-Green)
	Number of Characters	40 (20 Columns X 2 Lines)
	Brightness	500 ~ 1000 cd/m2
	Character Font	5X7 Doc Matrix
	Character Type	95 Alphanumeric, 32 International Characters
	Character Size	6.75(H) X 3.75(W)mm
	Doc Size (X x Y)	0.55 x 0.75 mm
	Download Characters	9 Characters
	Height	4.70” (120mm) with Stand-alone Base
		9.80” (250mm) with Base and 1 Extension
	Panel Dimension	75(H) x 170(W) x 50(D) mm
	Pole Dimension	Per Support Length: 130 mm
	Base Dimension	33(H) x 159.8(W) x 100(D) mm
	Viewing Angle	Max. 90^{o}
	Horizontal Rotation	Max. 355^{o}
	Weight	Approx. 980 Grams
Commands Mode	LD220, EPSON, AEDEX, UTC/S, UTC/P, ADM788, DSP800, CD5220, EMAX, LOGIC CONTROL, Ultimate	
Language Support	US English, Int’l English, Bosnia, Croatian, Czech, Danish, Dutch, Estonian, Faroese, Finnish, Flemish, French, Fr Canadian, German, Greek, Hebrew, Hungarian, Icelandic, Indonesian, Irish, Italian, Katakana, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Slovene, Slovak, Spanish, Swedish	
Interface	RS-232(Serial)/USB	
Connection	Baud Rate	Direct Connection 9600 or 19,200 bps
Reliability	MTBF	30,000 Hours
Power	Consumption	5-12 VDC
Safety	EMC Standards Safety Standards	FCC, CE

Setup Software Utility Guide

1. Power on , and waiting test page of EEPROM test, Baud rate, and Command page. And you may set up the customer display by “VFD_Setup.exe” Utility.

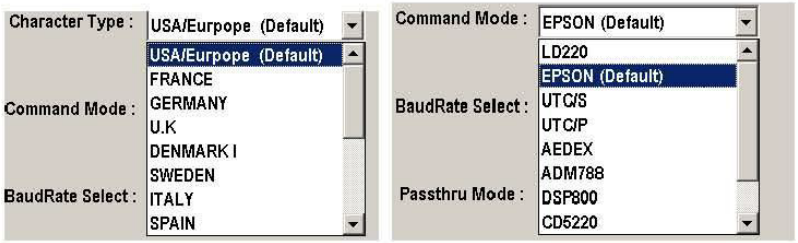
2. To execute “VFD_Setup.exe” for setup communication between display and Utility

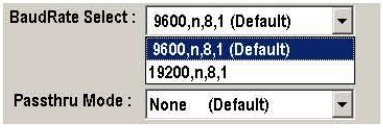


The Baud Rate will show on states page of the Utility (Note: You may check it when power on the display)

3. “Get Setting From VFD” button
To get all setting from the display and it’ll refresh the “VFD_Setup.exe” utility

4. “Character Type”/ “Command Mode”/ “BaudRate Select”/ “Passthru Mode”
Please refer to Chapter 4-5 user manual

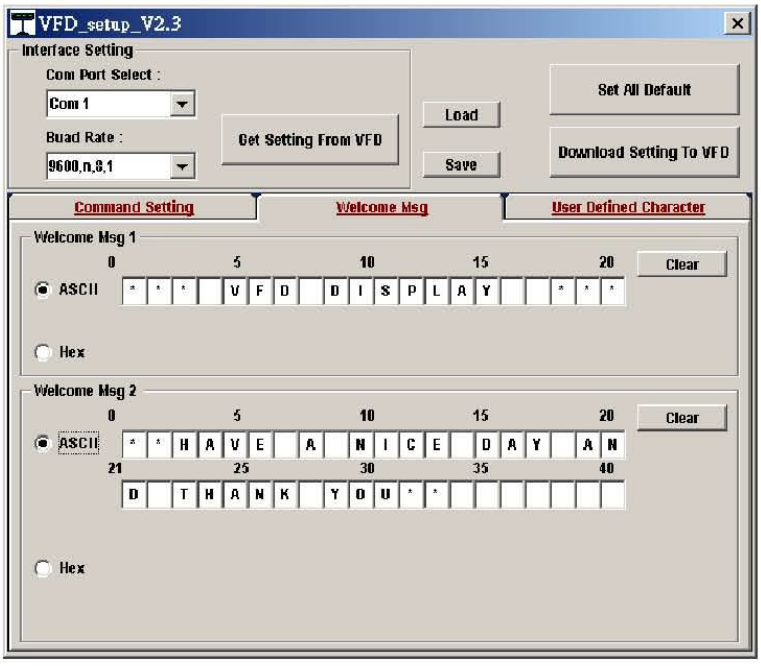




5. "Set All Default" button
   To show default setting, the Default table is,
   - Character Type : USA
   - Command Type : EPSON
   - BaudRate Setting : 9600/n/8/1
   - Passthru Mode : None
   - Welcome msg line1 : *** VFD DISPLAY ***
   - Welcome msg line2 : **HAVE A NICE DAY AND THANK YOU**

6. Welcome Msg
   Welcome Msg line1 maximum 20 characters, line 2 maximum 20 characters, total of 40 characters.

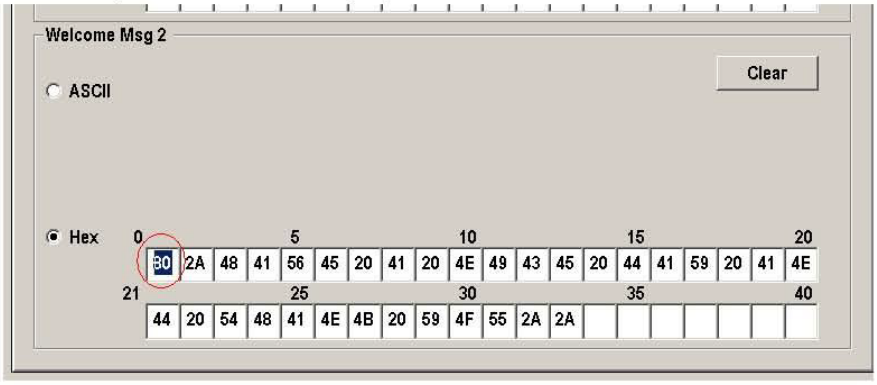
   a. ASCII mode



   You can type the character by keyboard (0x20h ~ 0x7Fh), if you press clear icon, will clear the all Msg characters on AP.

   b. Hex mode
   Hex mode can define the character from 0x20h to0xFFh，the range 0x80~0xFF

which depends on the code page table.



Like the first character (0x80)，in default code page will show Ç on display。

7. “Download setting to VFD” button
   This button is to download the setting from VFD_Setup.exe to display.
   *After success dialog “Download O.K ! Please restart !” message popped up, you must restart display for enable new setting.

8. “Save” button
   To save user’s setting in file, example: below picture to save file name as “Rename-GOODLUCK” file set for Welcome Msg.
   P.S : The default setting named “VFD.vfd” which can’t be made any setting change.

9. “Load’ button
For saving your time, you could load any setting file which you made before to the display. You must restart the display for enable the new settings.

6-6 i-Button Reader Configuration Utility

The i-Button Reader Configuration Utility is used to set up the output format of HID MSR

Installation

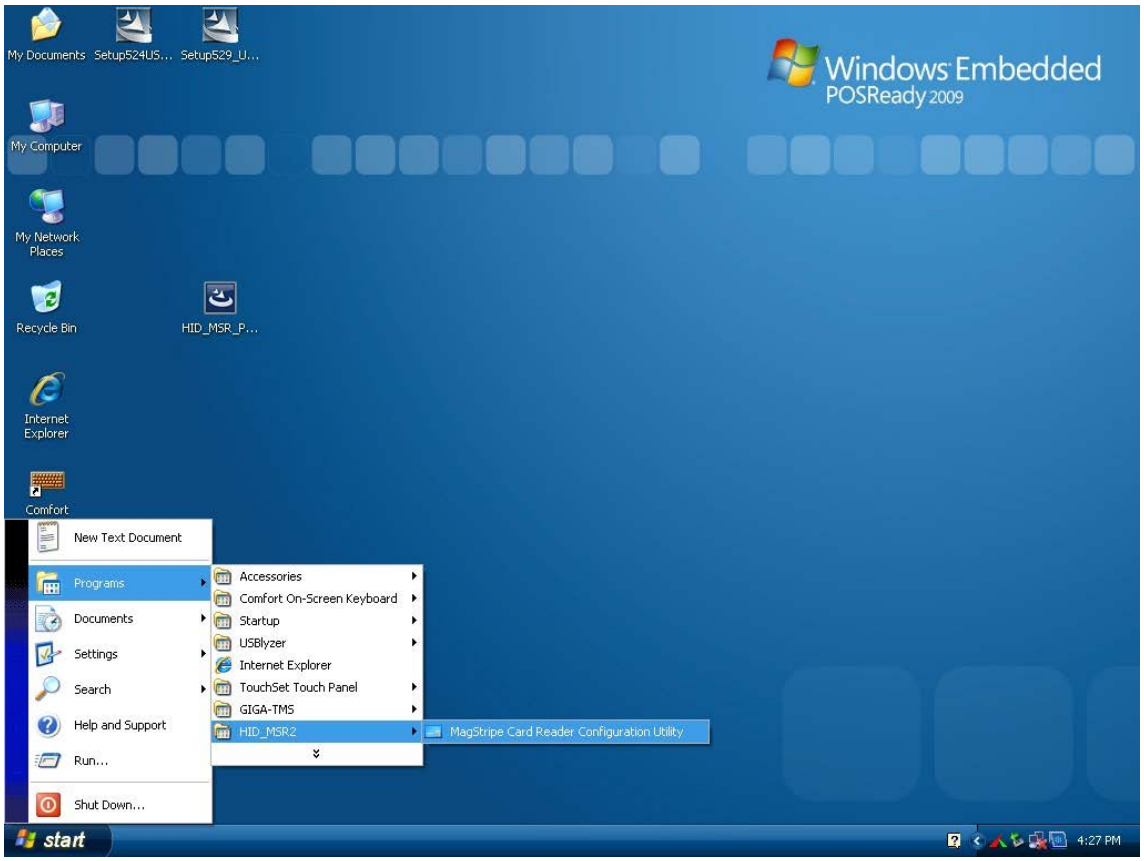
Below steps guide you how to install the Utility program.

- Insert the setup CD
- Run the **HID_MSR_PSW00003_V2_0_0.exe** setup file that is located in the Software folder of CD.
- Follow the wizard to complete the installation.

Launching Program

Below steps guide you how to load the **Utility** program.

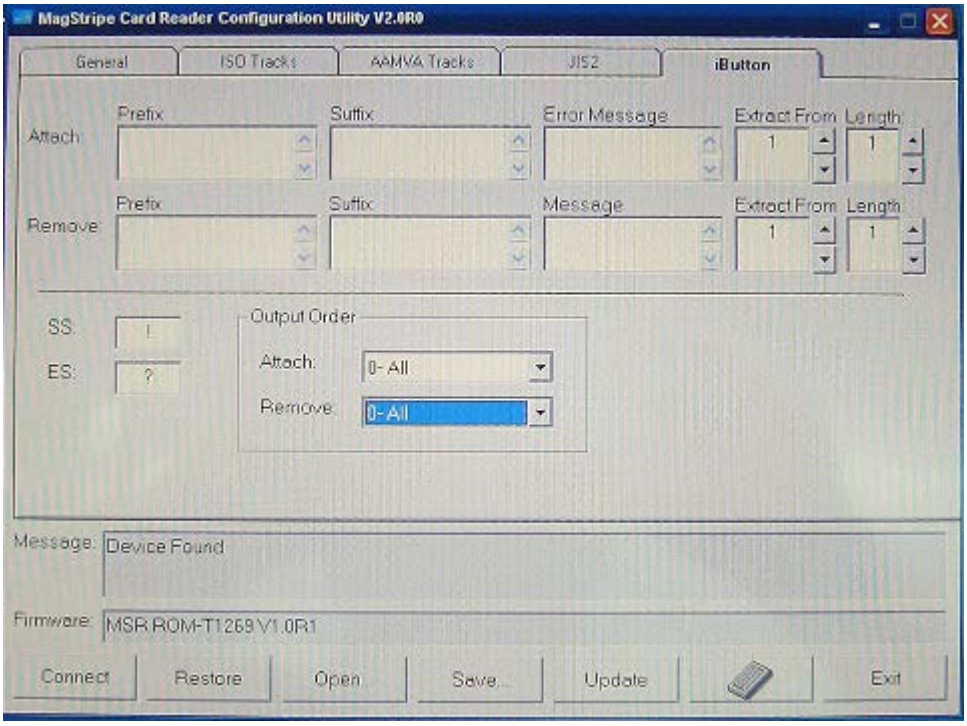
- From **Start/Programs**, click **HID_MSR2** folder
- Click **MagStripe Card Reader Configuration Utility** to launch the program.



- The utility program will detect the connected reader. If detected, all the input text boxes will be enabled.
- If the reader has not been connected to PC yet, please connect the reader and then click **Refresh** to get connected.

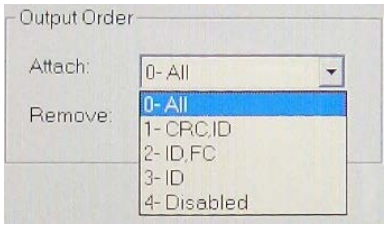
Configuration

Below is the main window of i-Button **Utility** program.



For the settings, there are:

- **Prefix/Suffix:** Defines the data string which you would like to append in front or end of the i-Button key string.
- **Error Message:** Indicates error message when i-Button key read fail.
- **Message:** Indicates message when i-Button key read correctly
- **SS/ES :** Define Start and End sentinel byte for the i-Button ID string
- **Length :** i-Button ID length request from 0~16
- **Output order :** 4 format could be select at Attach /Remove i-Button ID



Update Settings

Once complete the settings, click **Update** to update the settings to connected HID MSR reader.

Save Settings

To save the settings to a file, click **Save**; specify the file name and location to be saved.

Open Settings

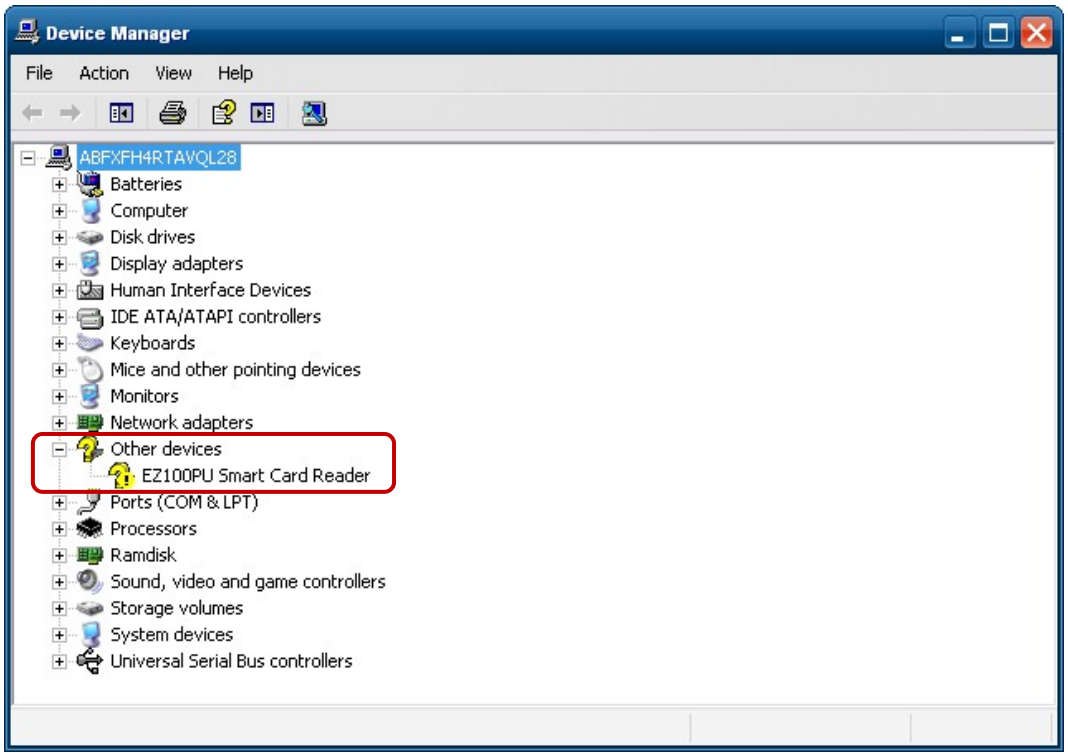
To load pre-saved settings, click **Open**, specify the settings file, and then click OK to load into program.

Restore MSR Reader Settings

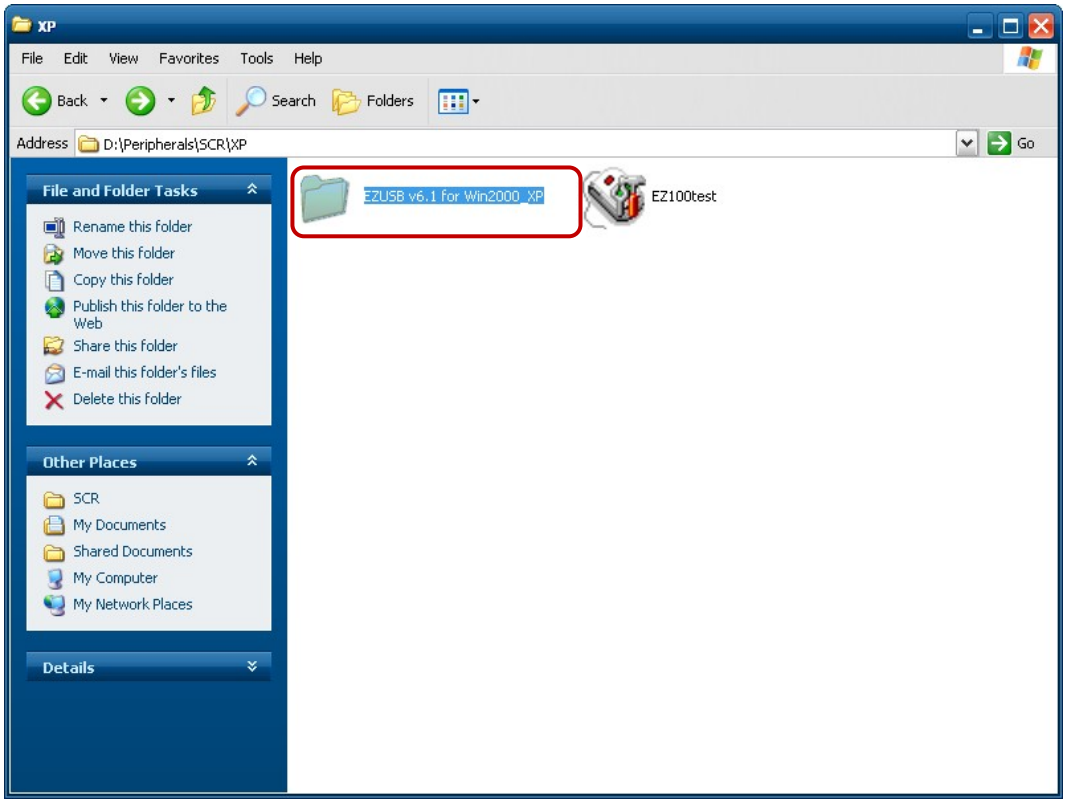
To load restore settings of connected MSR reader, click **Restore ES2:** End sentinel for track.

6-7 Installation and Testing of Smart Card Reader

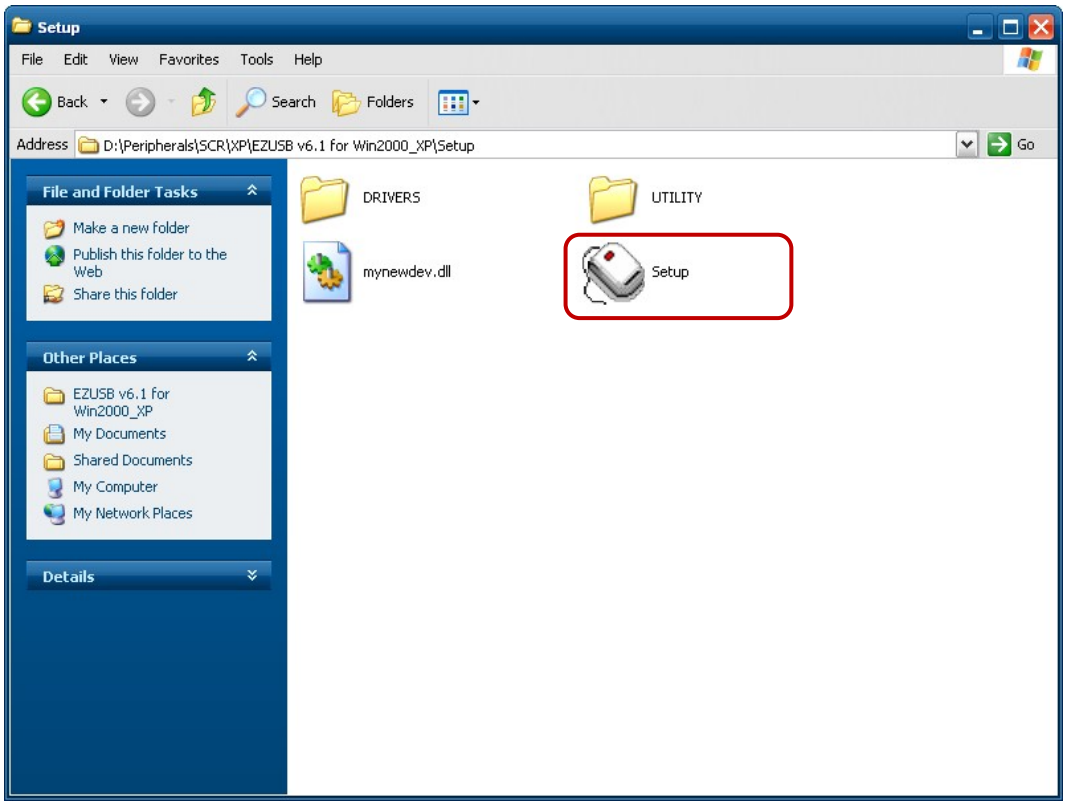
1. Check smart card reader be detected by “Device manager”.



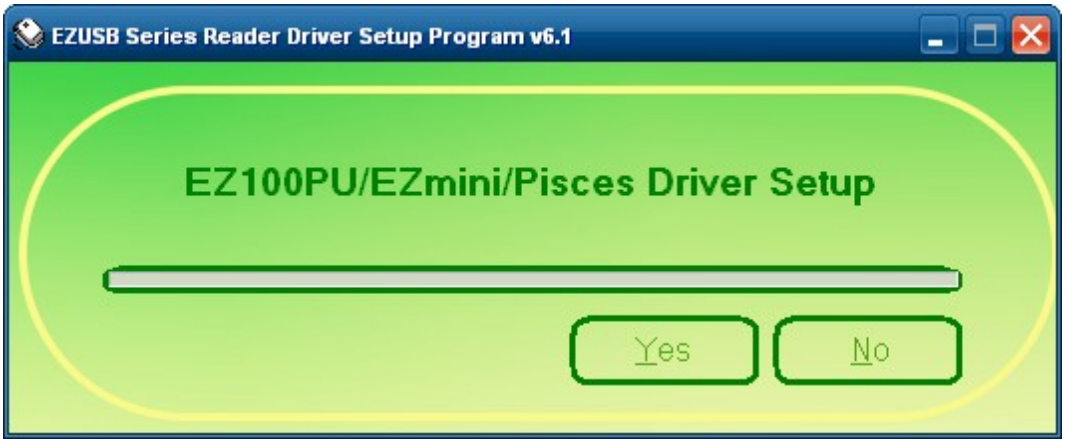
2. Install the SCR driver.

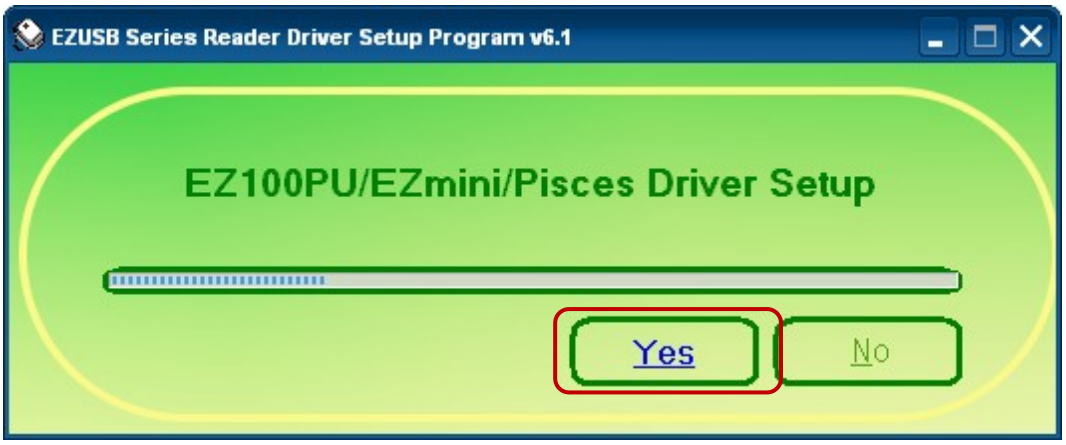


3. Run Setup.exe.

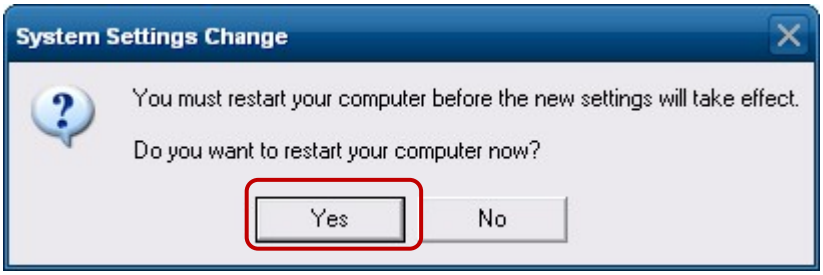


4. Click "**Yes**".

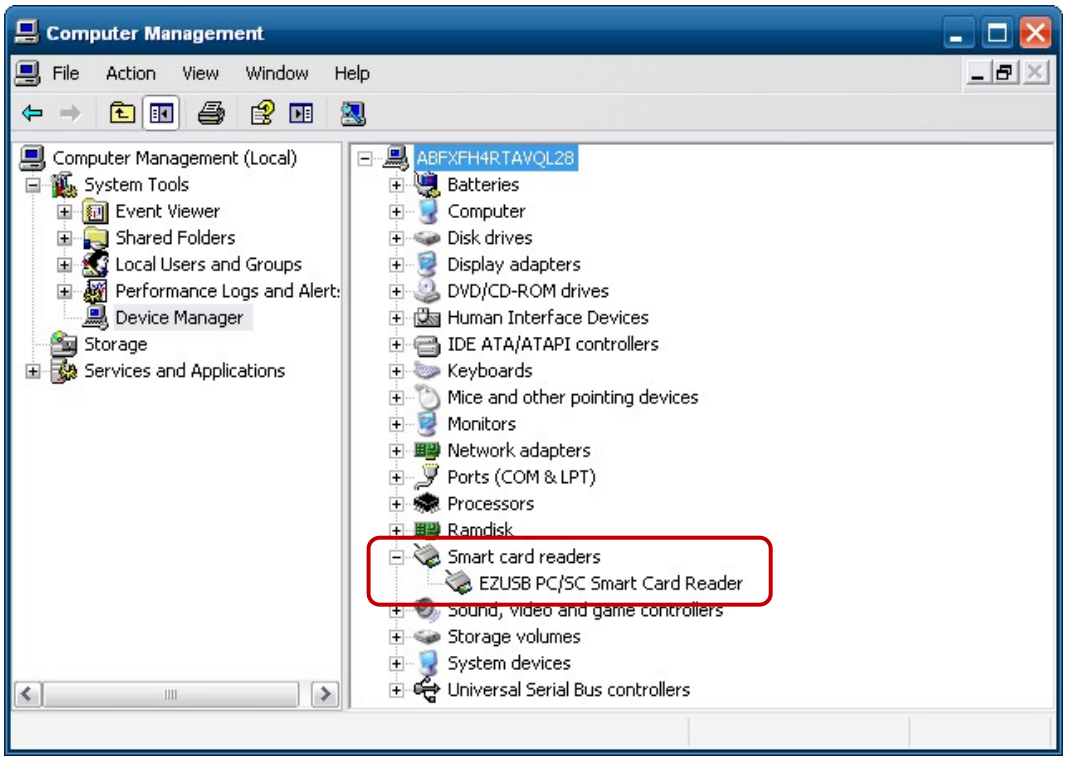




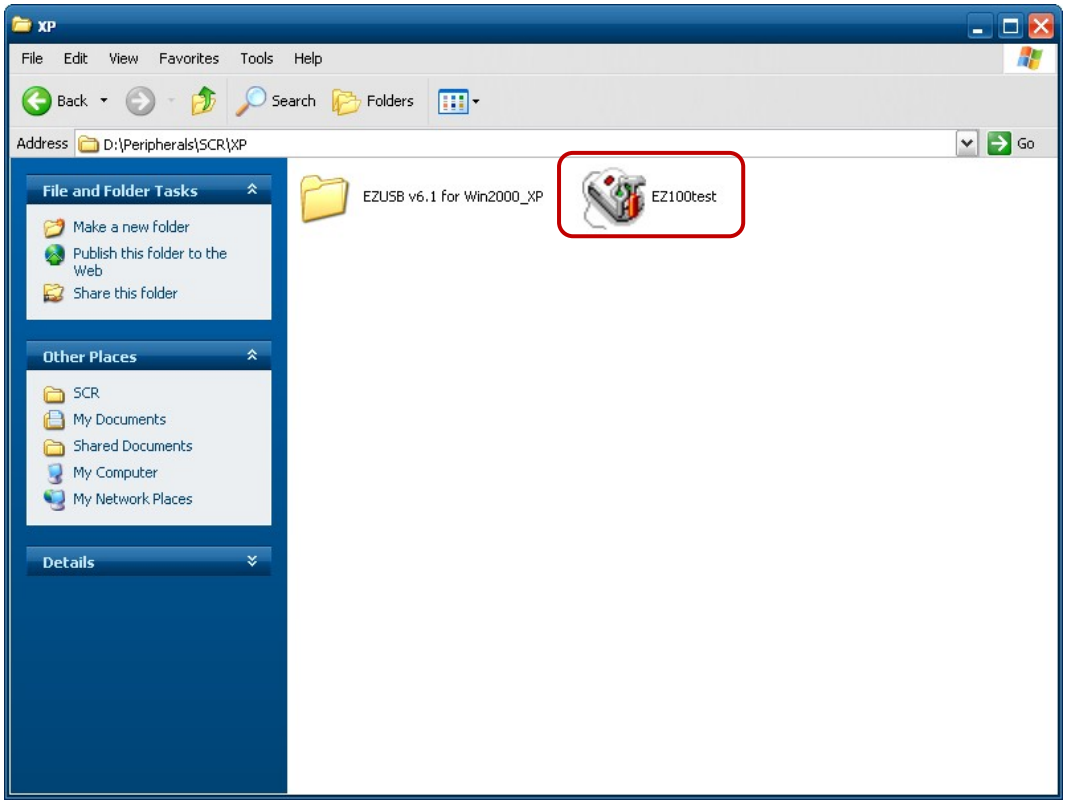
5. Restart systems.


System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

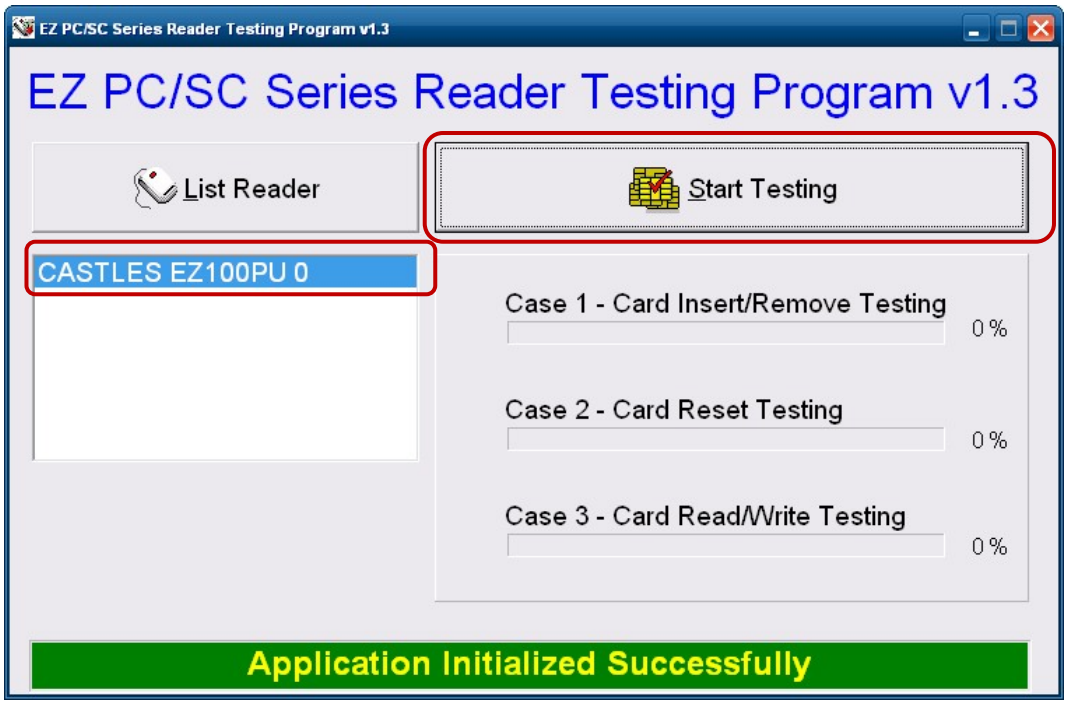
6. Check SCR reader in Device Manager.



7. Run the testing program – EZ100test.

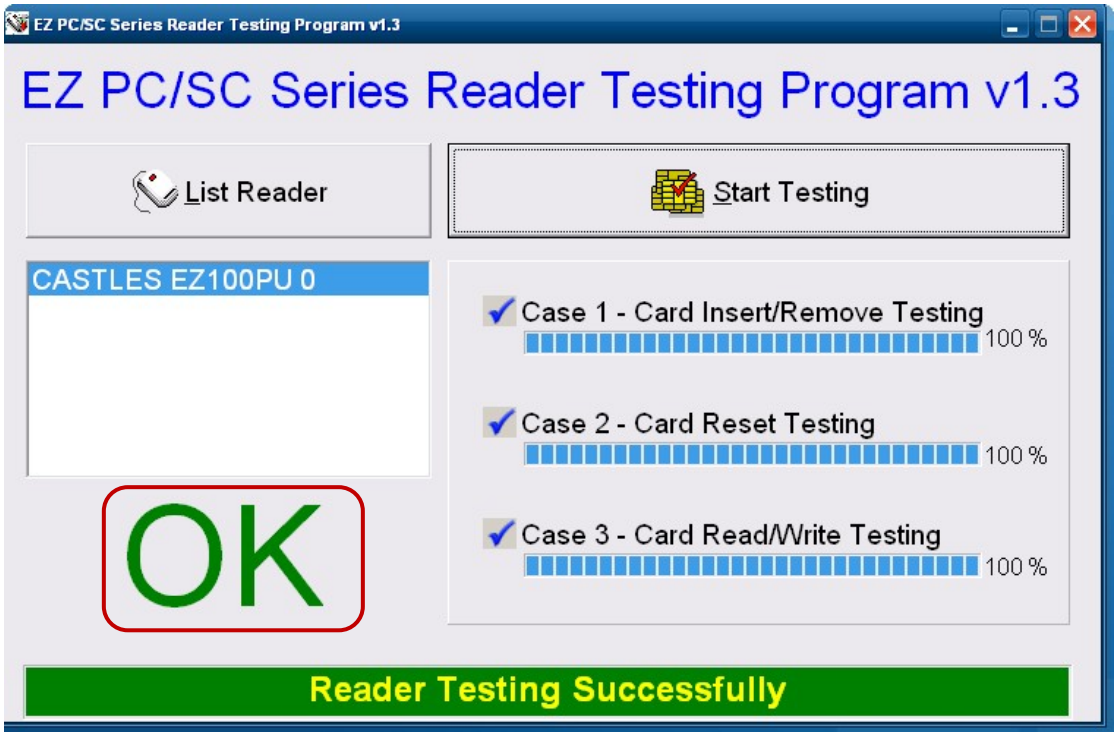


8. Conferm that SCR can be detected by the testing program, then run the program - the Start Testing.


EZ PC/SC Series Reader Testing Program v1.3
EZ PC/SC Series Reader Testing Program v1.3
List Reader
Start Testing
CASTLES EZ100PU 0
Case 1 - Card Insert/Remove Testing
0 %
Case 2 - Card Reset Testing
0 %
Case 3 - Card Read/Write Testing
0 %
Application Initialized Successfully

9. Follow dialog boxes displayed to remove and insert card.

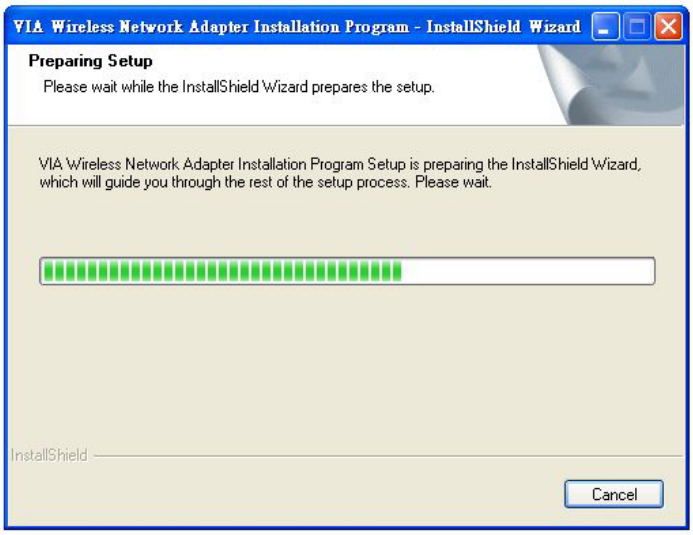
10. After finishing the testing, the dialog box will show "**oK**".



6-7 Wi-Fi

1. Install the Wi-Fi driver.

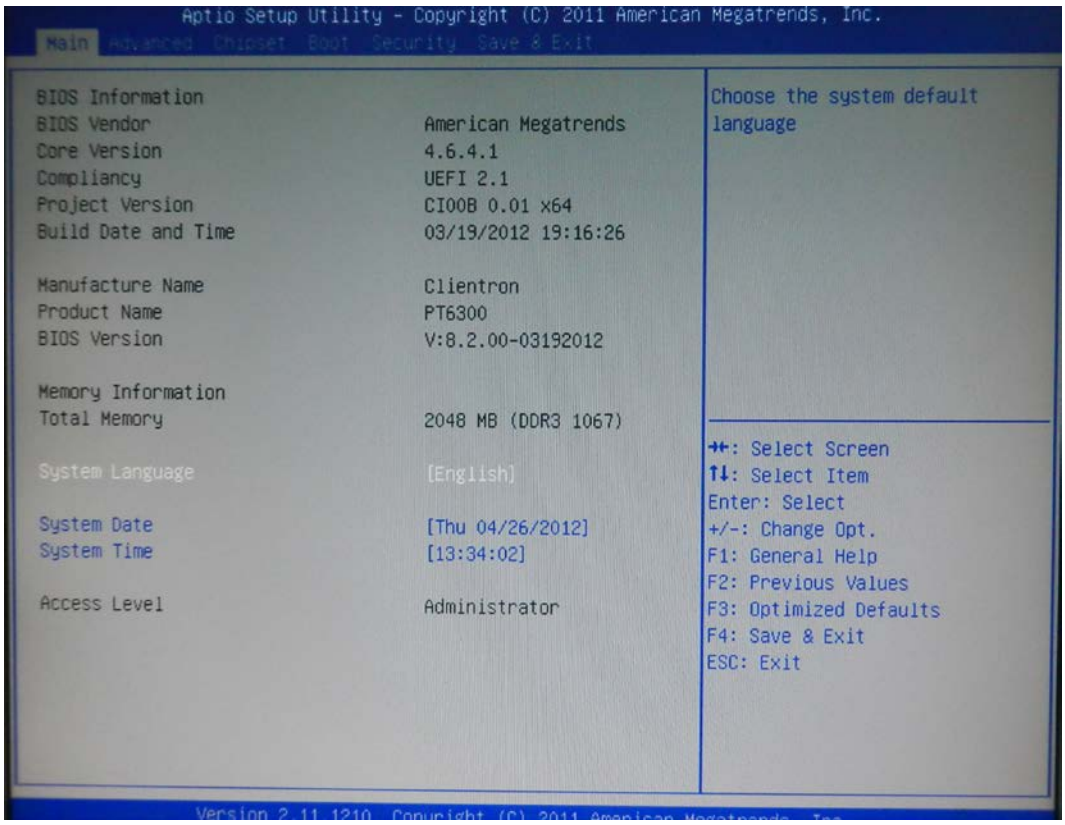
2. Run Setup.exe.


VIA Wireless Network Adapter Installation Program - InstallShield Wizard
Preparing Setup
Please wait while the InstallShield Wizard prepares the setup.
VIA Wireless Network Adapter Installation Program Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
InstallShield
Cancel

7 BIOS/Utility Setup

Press <DEL > / <F2> key to enter BIOS SETUP UTILITY when system boot up.

☆ **Please press <DEL > / <F2> key tenderly and slowly.**



Date and Time

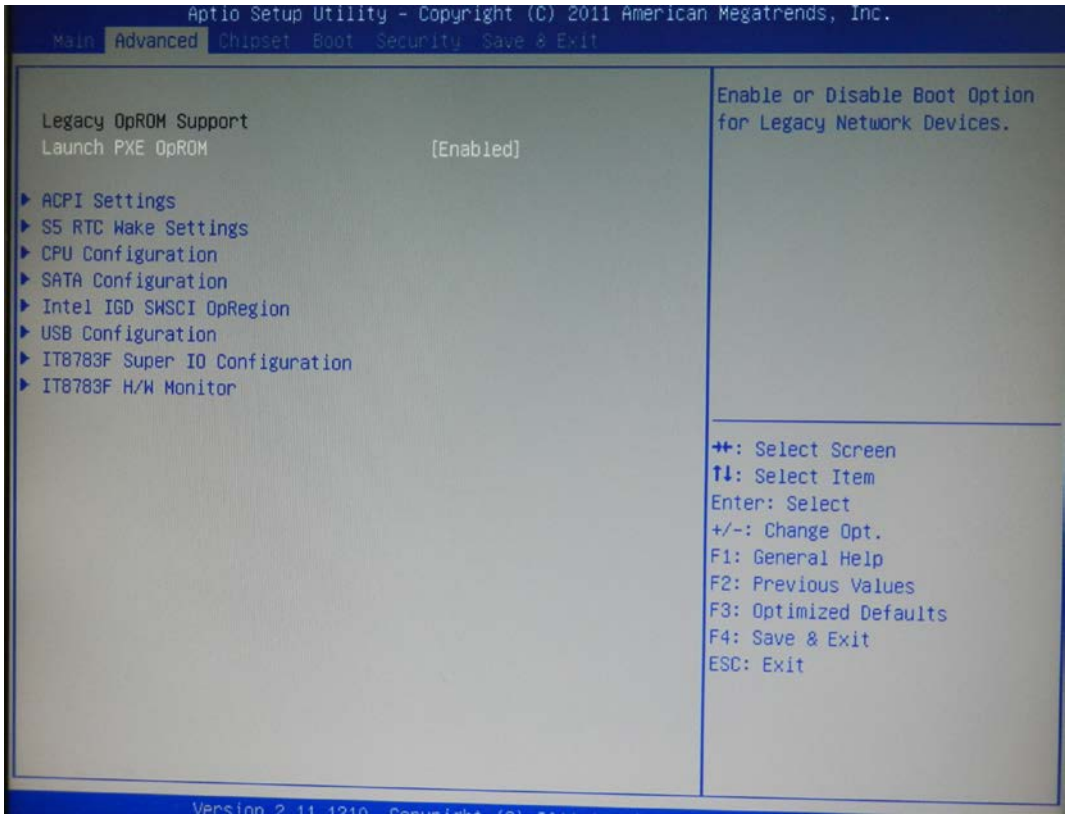
The Date and Time items show the current date and time on the computer. If you are running a Windows OS, these items are automatically updated whenever you make changes to the Windows Date and Time Properties utility.

WARNING!

Setting the wrong values in the sections below may cause the system to malfunction. Make sure that the settings made are compatible with the hardware.

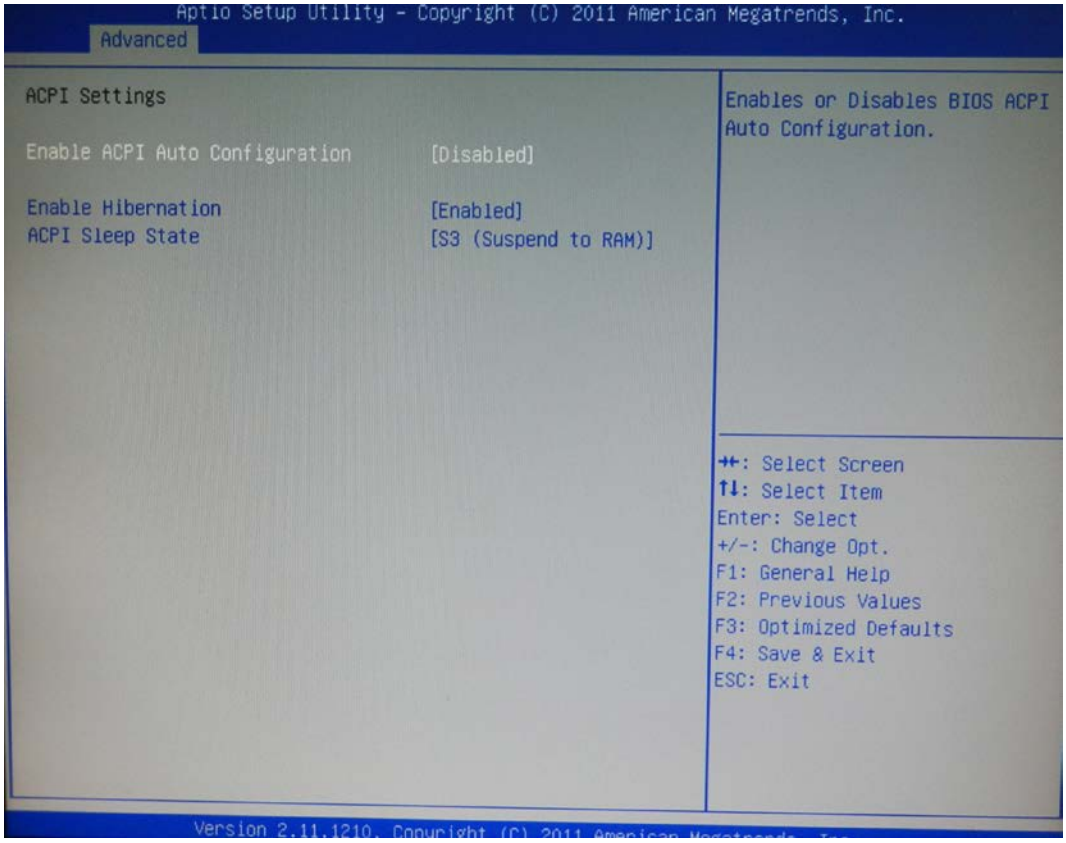
7-1 Advanced

Use the Advanced menu to configure the CPU and peripheral devices through the following sub-menus:



7-1-1 ACPI Configuration

The ACPI Configuration menu configures the Advanced Configuration and Power Interface (ACPI) options



ACPI Sleep State

Use the ACPI Sleep State option to specify the sleep state the system enters when it is not being used.

1. Suspend Disabled

2. S1 (CPU Stop Clock)

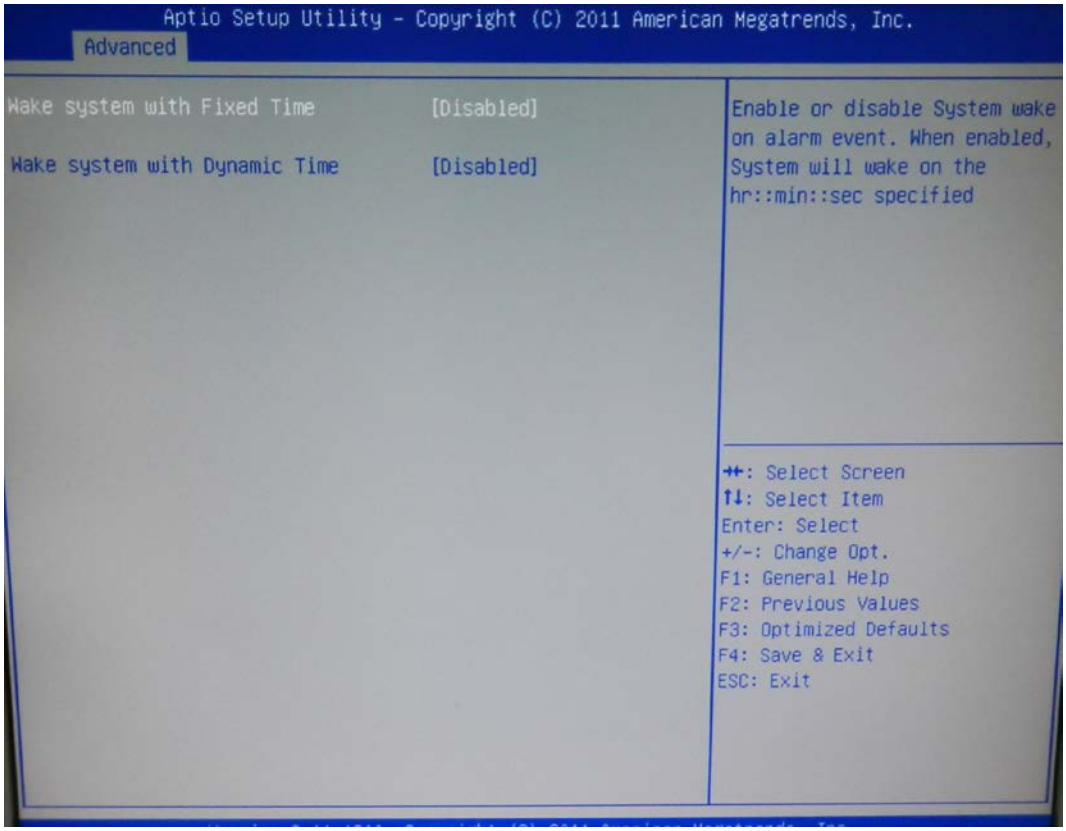
DEFAULT The system enters S1 (POS) sleep state. The system appears off. The CPU is stopped; RAM is refreshed; the system is running in a low power mode.

3. S3 (Suspend to RAM)

The caches are flushed and the CPU is powered off. Power to the RAM is maintained. The computer returns slower to a working state, but more power is saved.

7-1-2 S5 RTC Wake Settings

Enable or disable system wake on alarm event. When enabled, system will wake on the hr::min::sec specified.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Wake system with Fixed Time [Disabled]
Wake system with Dynamic Time [Disabled]
Enable or disable System wake on alarm event. When enabled, System will wake on the hr::min::sec specified
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit

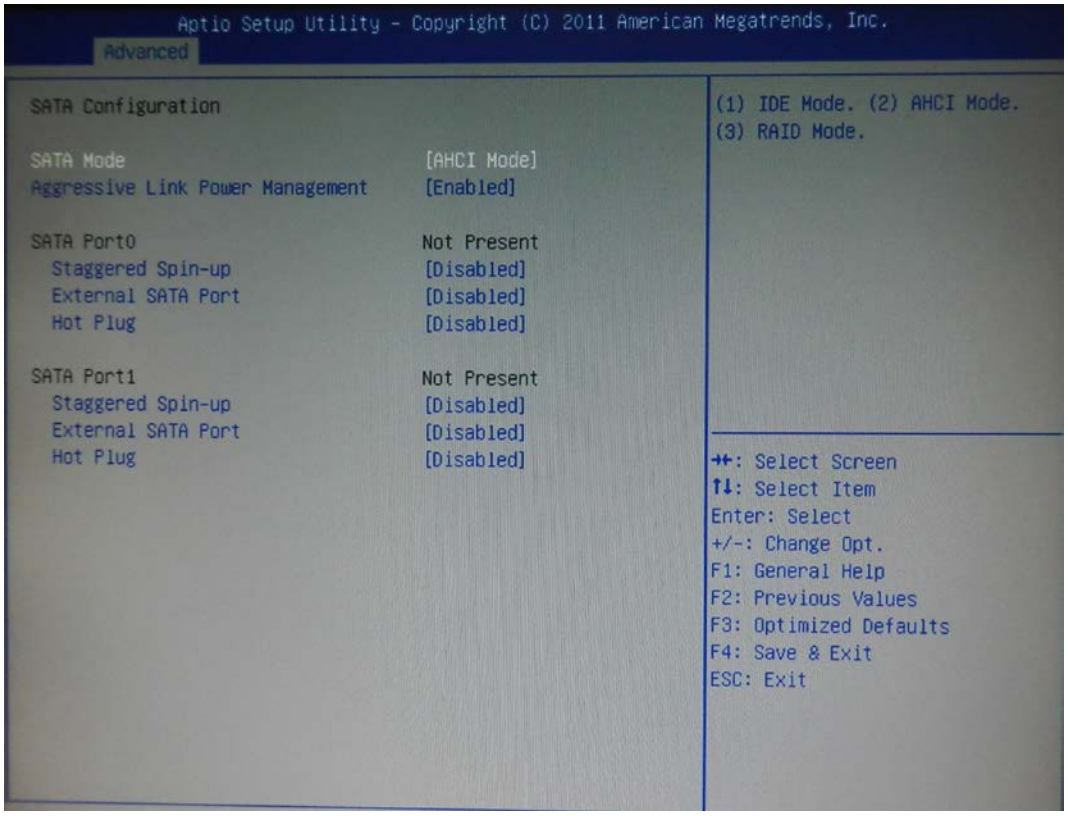
7-1-3 CPU Configuration

Use the CPU Configuration menu to enter the CPU Information submenu or setup Intel CPU parameter.

Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
CPU Configuration
Socket 0 CPU Information
CPU Speed 2500 MHz
64-bit Supported
Active Processor Cores [All]
Limit CPUID Maximum [Disabled]
Execute Disable Bit [Enabled]
Hardware Prefetcher [Enabled]
Adjacent Cache Line Prefetch [Enabled]
Intel Virtualization Technology [Disabled]
Power Technology [Energy Efficient]
Factory long duration power limit 65 Watts
Long duration power limit 0
Factory long duration maintained 1000 ms
Long duration maintained 0
Recommended short duration power l 1.25 * Long Duration
Short duration power limit 0
Socket specific CPU Information
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit

7-1-4 SATA Configuration

Use the SATA Configuration menu to change and/or set the configuration of the SATA devices installed in the system.



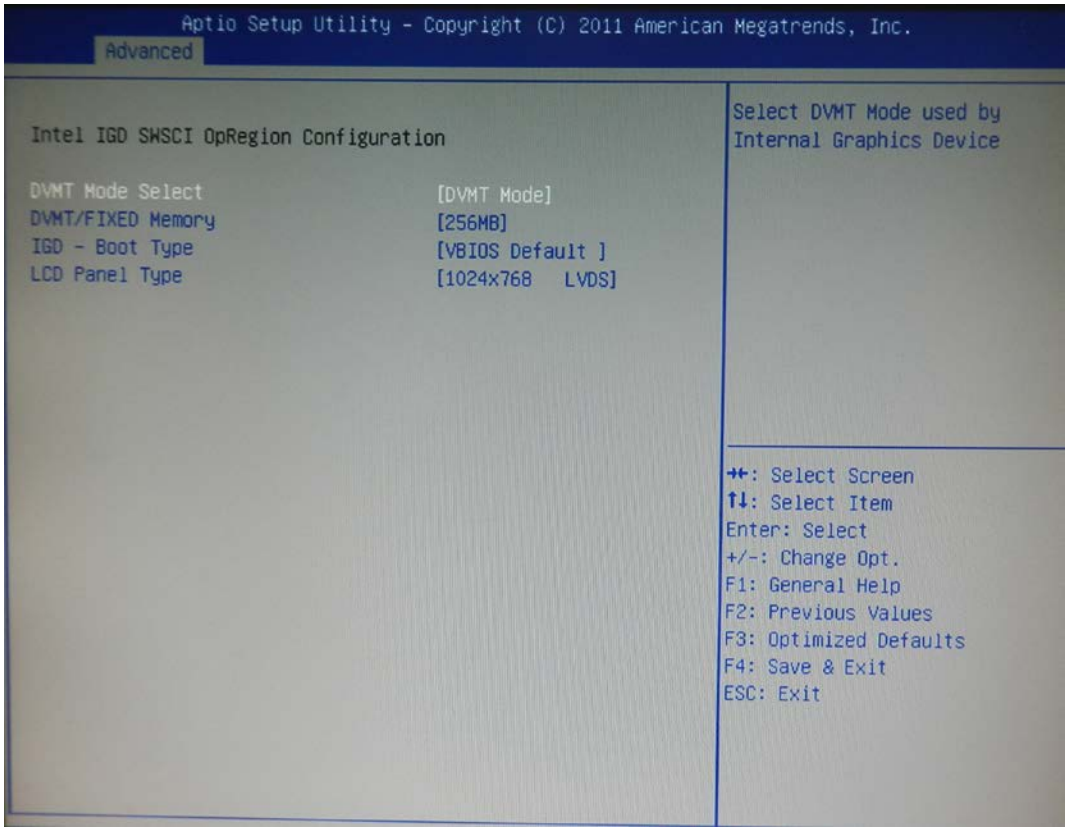
SATA Mode

Use the SATA Mode option to configure SATA devices as normal IDE devices.

Disable	Disables SATA devices.
IDE Mode	Configures SATA devices as normal IDE device.
RAID Mode	Configures SATA devices as RAID device.

7-1-5 Intel IGD SWSCI OpRegion Configuration

Use the Configuration menu to change and/or set the configuration of the internal graphics devices installed in the system.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Intel IGD SWSCI OpRegion Configuration
DVMT Mode Select [DVMT Mode]
DVMT/FIXED Memory [256MB]
IGD - Boot Type [VBIOS Default]
LCD Panel Type [1024x768 LVDS]
Select DVMT Mode used by Internal Graphics Device
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit

DVMT Mode

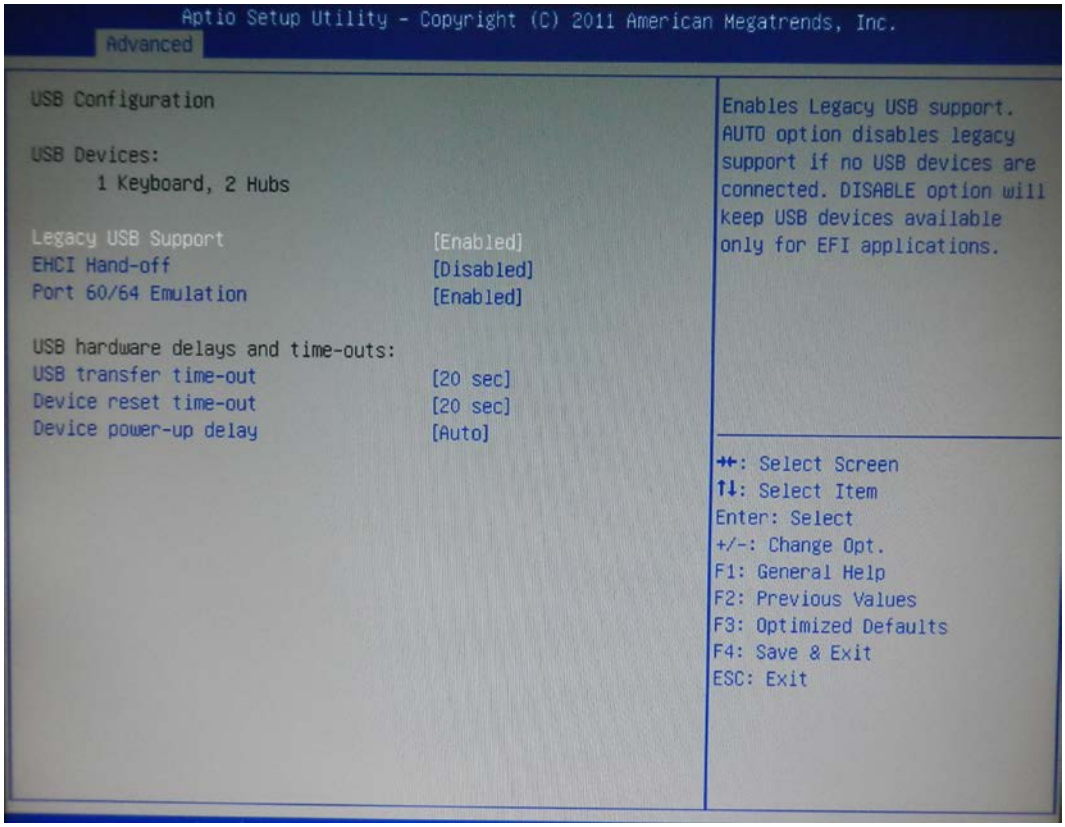
Use the DVMT Mode option to configure internal graphics device.

DVMT/FIXED Memory

Use the option to configure memory size of internal graphics device.

7-1-6 USB Configuration

Use the USB Configuration menu to read USB configuration information and configure the USB settings.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
USB Configuration
USB Devices:
1 Keyboard, 2 Hubs
Legacy USB Support [Enabled]
EHCI Hand-off [Disabled]
Port 60/64 Emulation [Enabled]
USB hardware delays and time-outs:
USB transfer time-out [20 sec]
Device reset time-out [20 sec]
Device power-up delay [Auto]
Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit

USB Devices

The USB Devices Enabled field lists the USB devices that are enabled on the system

Legacy USB Support [Enabled]

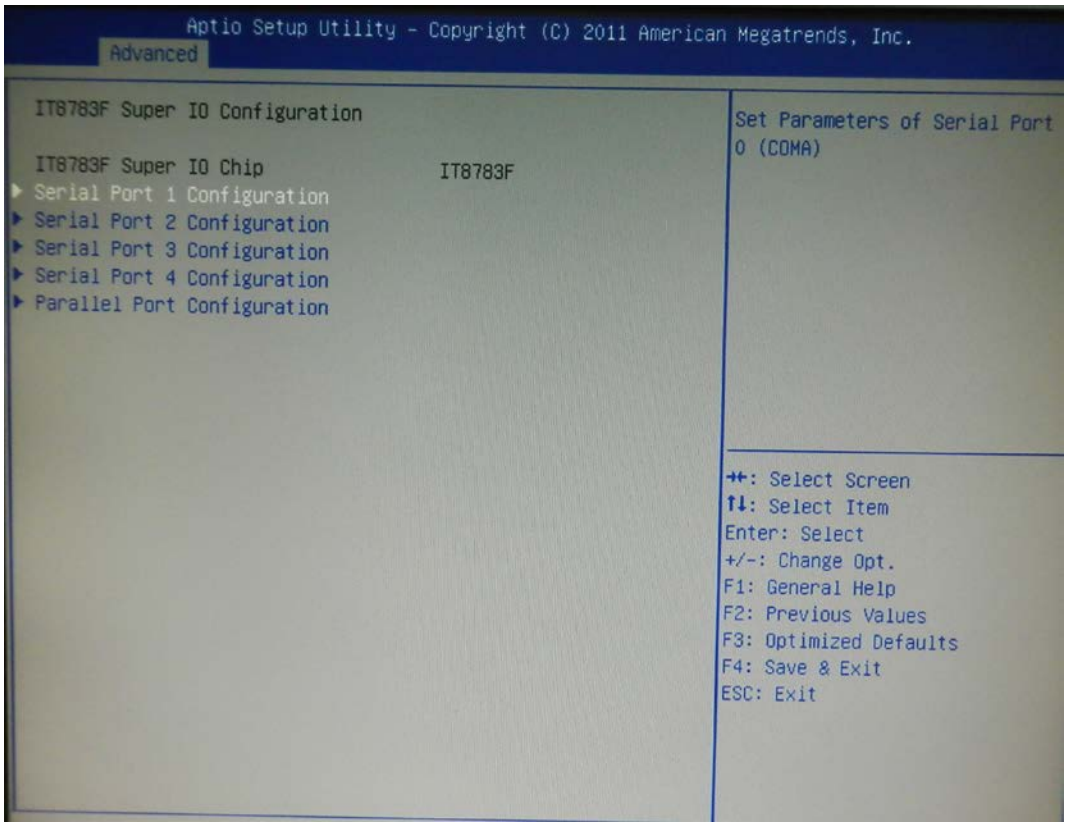
Use the Legacy USB Support BIOS option to enable USB mouse and USB keyboard support. Normally if this option is not enabled, any attached USB mouse or USB keyboard does not become available until a USB compatible operating system is fully booted with all USB drivers loaded. When this option is enabled, any attached USB mouse or USB keyboard can control the system even when there is no USB driver loaded onto the system.

Disabled Legacy USB support disabled

Enabled Legacy USB support enabled

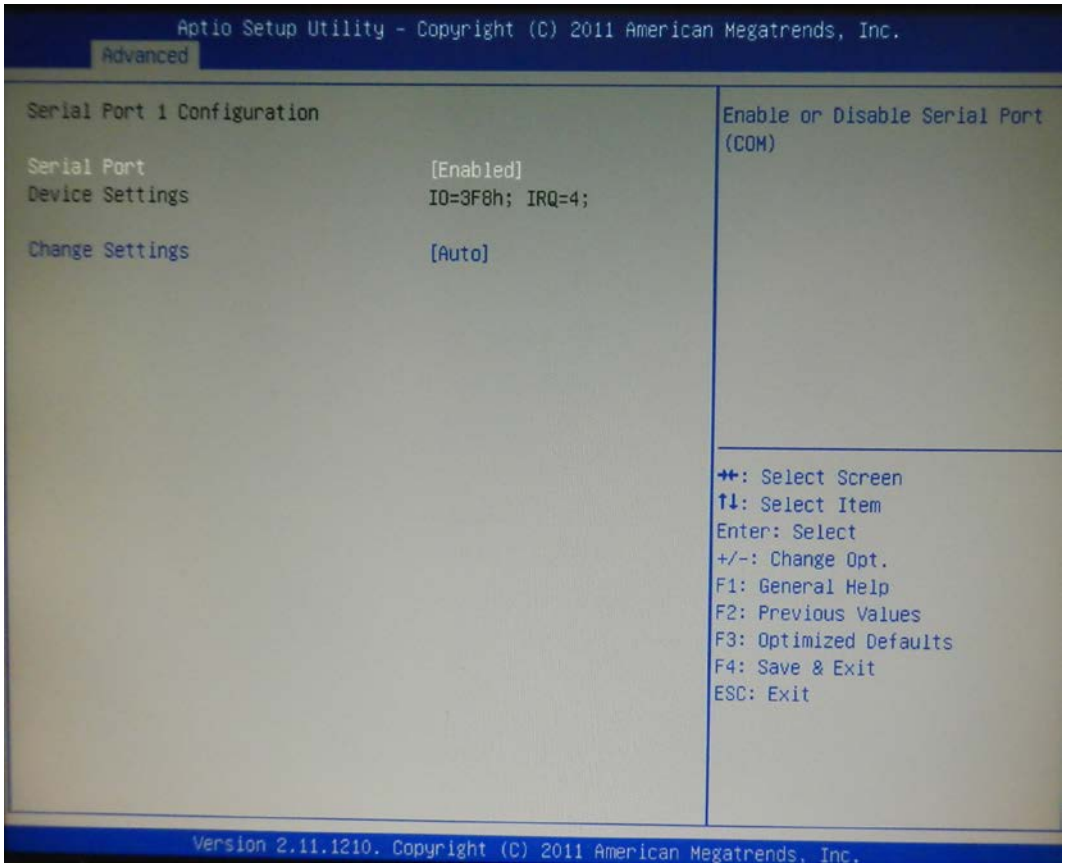
7-1-7 IT8783F Super IO Configuration

Use the Super IO Configuration menu to set or change the configurations for parallel ports and serial ports.



Serial Port n Configuration

Use the Serial Port n Configuration menu to configure the serial port n.



Serial Port [Enabled]

Use the Serial Port option to enable or disable the serial port.

Disabled Disable the serial port

Enabled Enable the serial port

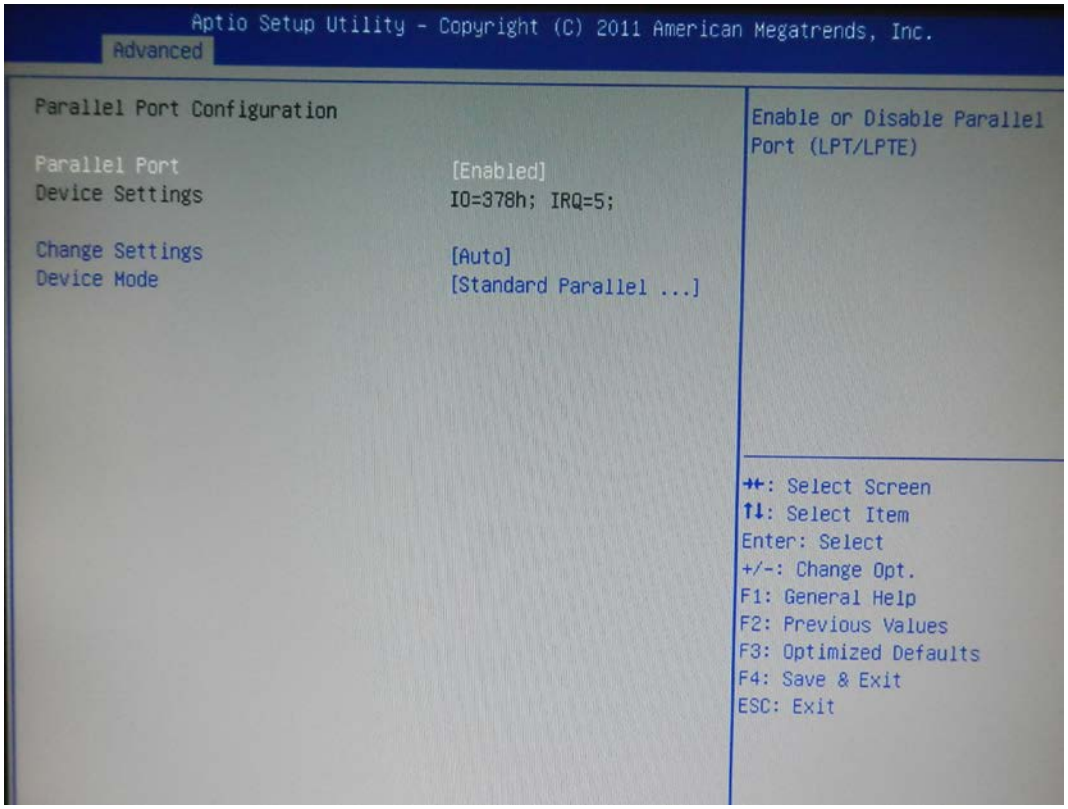
Change Settings [Auto]

Use the Change Settings option to change the serial port IO port address and interrupt address.

Auto The serial port IO port address and interrupt address are automatically detected.

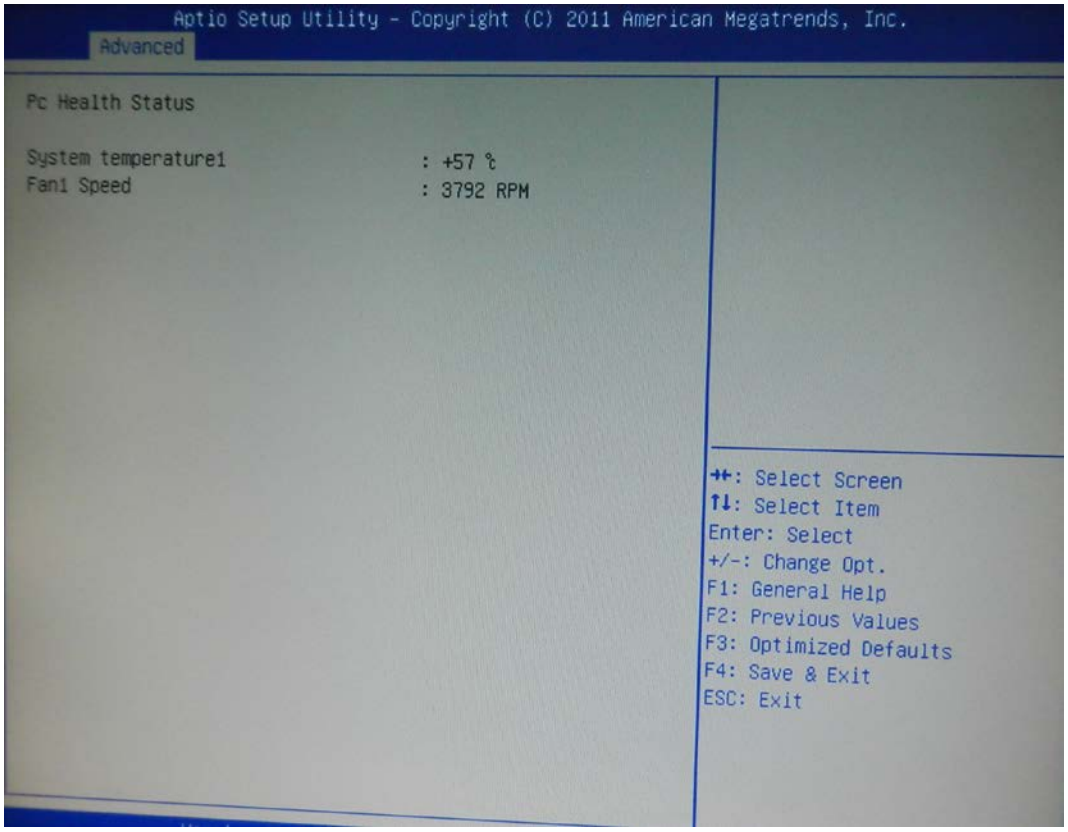
7-1-8 Parallel Port Configuration

Use the Parallel Port Configuration menu to configure the parallel port.



7-1-9 H/W Monitor

The H/W Monitor menu shows the operating temperature and fan speeds.

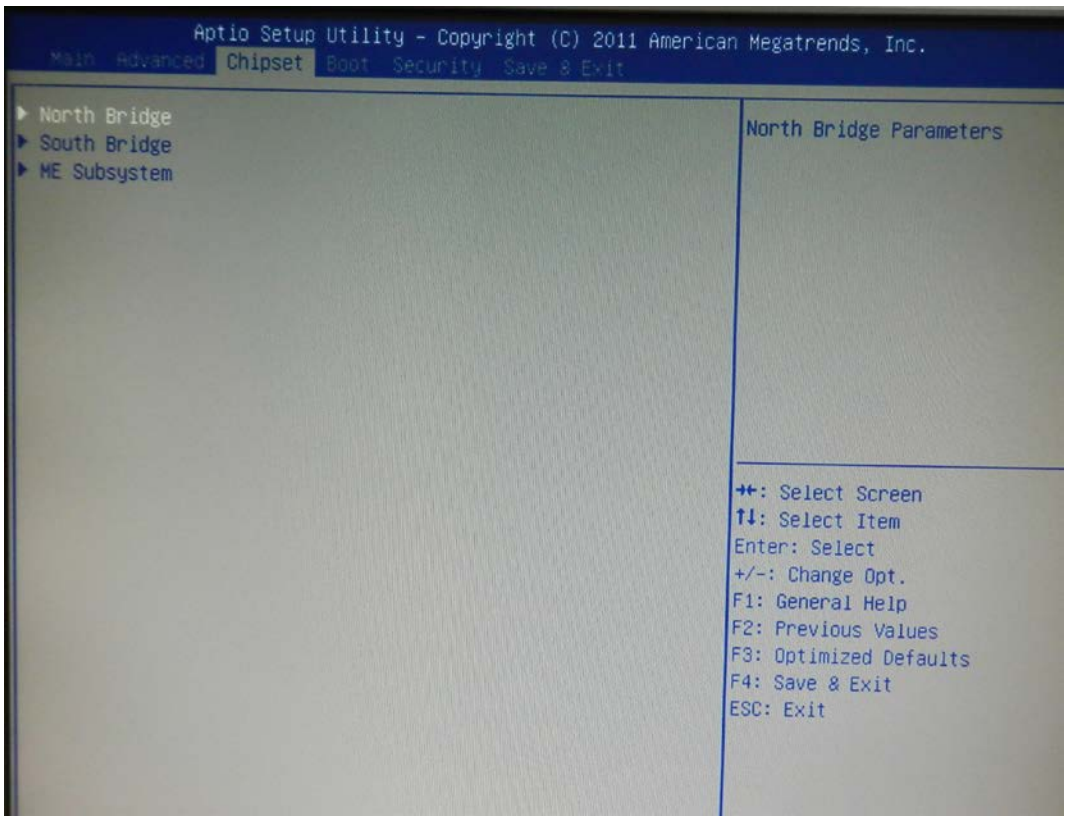


7-2 Chipset

Use the Chipset menu to access the Northbridge and Southbridge configuration menus

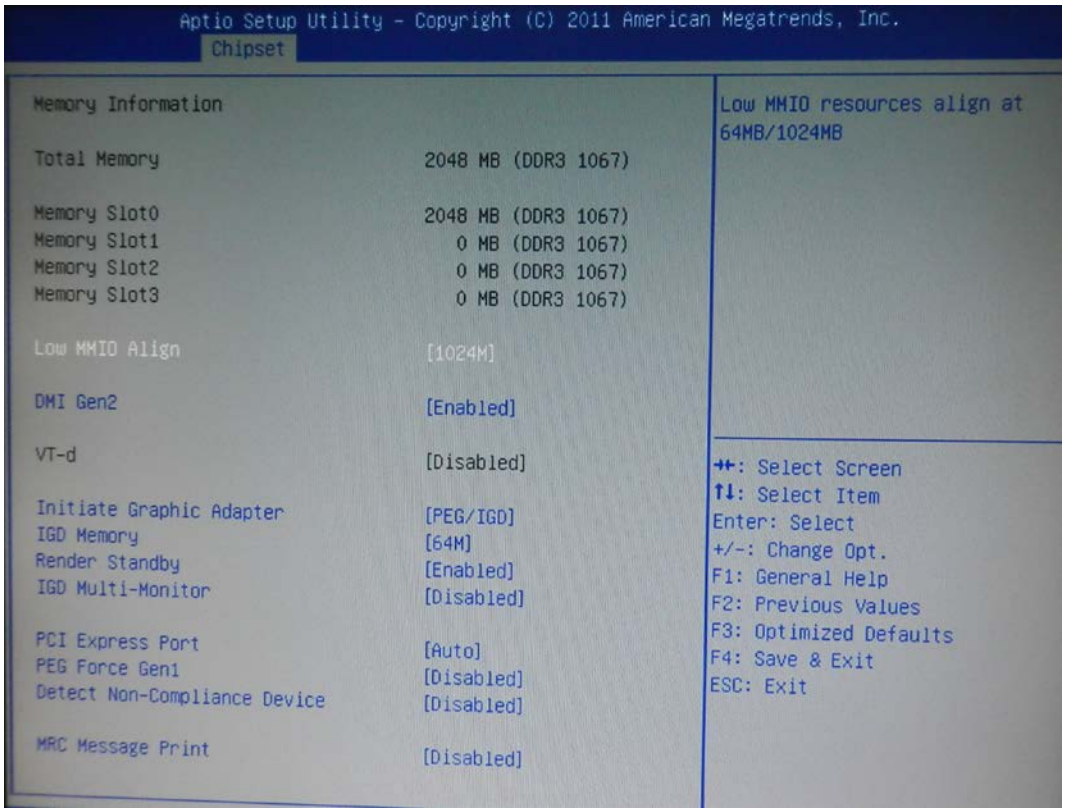
WARNING!

Setting the wrong values for the Chipset BIOS selections in the Chipset BIOS menu may cause the system to malfunction.



7-2-1 Northbridge Configuration

Use the Northbridge Chipset Configuration menu to configure the Northbridge chipset.



Initiate Graphic Adapter [PEG/IGD]

Use the Initiate Graphic Adapter option to select the graphics controller used as the primary boot device. Select either an integrated graphics controller (IGD) or a combination of PCI graphics controller, a PCI express (PEG) controller or an IGD. Configuration options are listed below:

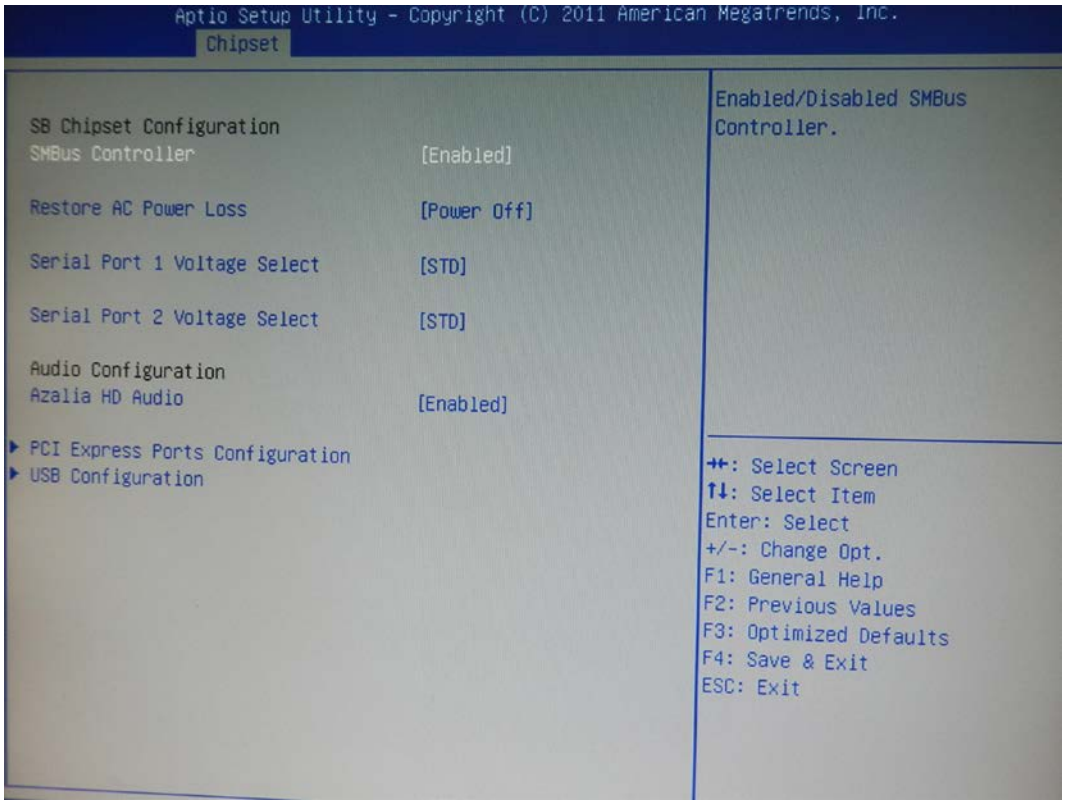
- ☐ IGD
- ☐ PCI/IGD
- ☐ PCI/PEG
- ☐ PEG/IGD DEFAULT
- ☐ PEG/PCI

IGD Memory [64 M]

Use the IGD Memory option to specify the amount of system memory that can be used by the internal graphics device

7-2-2 Southbridge Configuration

Use the Southbridge Configuration menu to configure the Southbridge chipset.



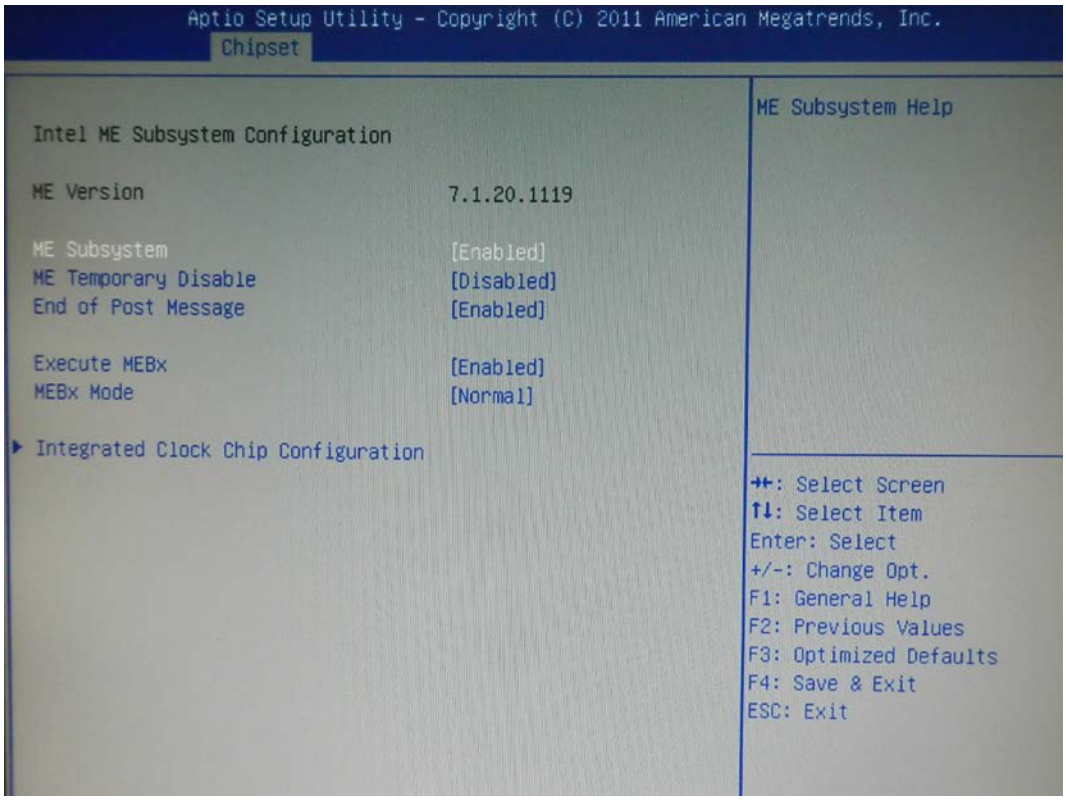
Serial Port 1/2 Voltage Select [STD]

Select "COM1/2 PIN9 Function" and press <Enter> to setup COM 1/2 PIN9 function.

ITEM	Option	Descriptions
COM1 PIN9 Function	STD (Default) 5V 12V	COM1/2 Pin9 select RING function
COM2 PIN9 Function		COM1/2 Pin9 select 5V/12V function

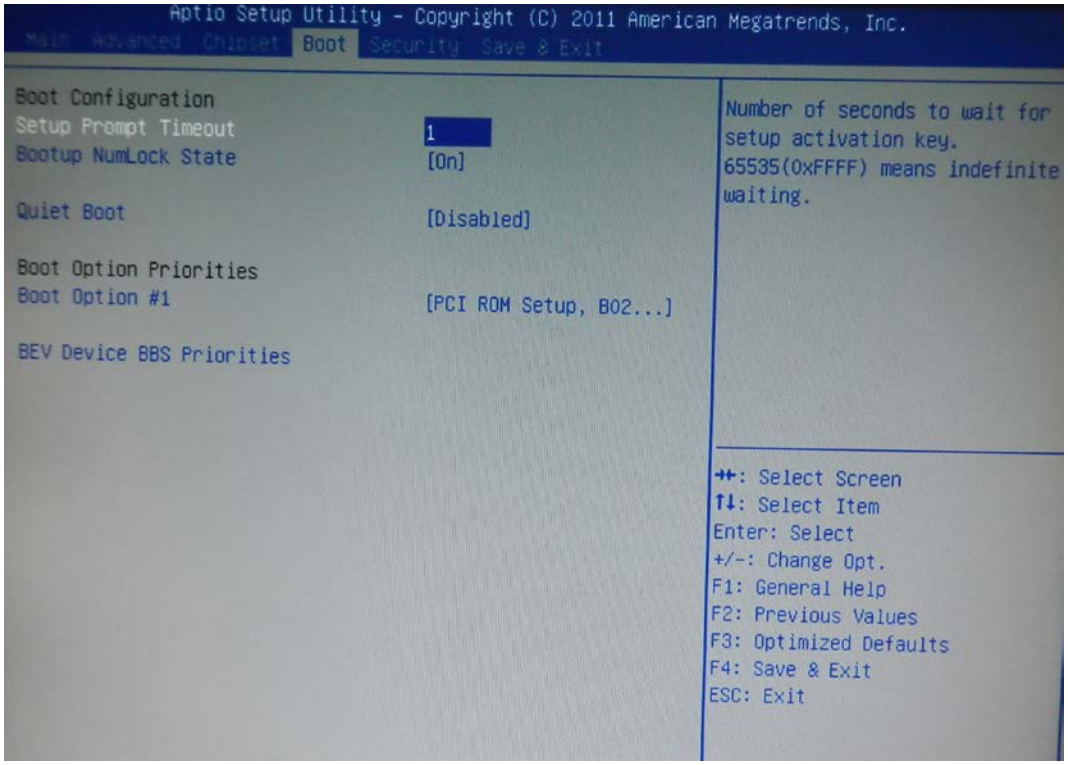
7-2-3 ME Subsystem

Use the ME Subsystem menu to configure the Intel® Management Engine (ME) configuration options.



7-3 Boot

Use the Boot menu to configure system boot options.



Bootup NumLock State [On]

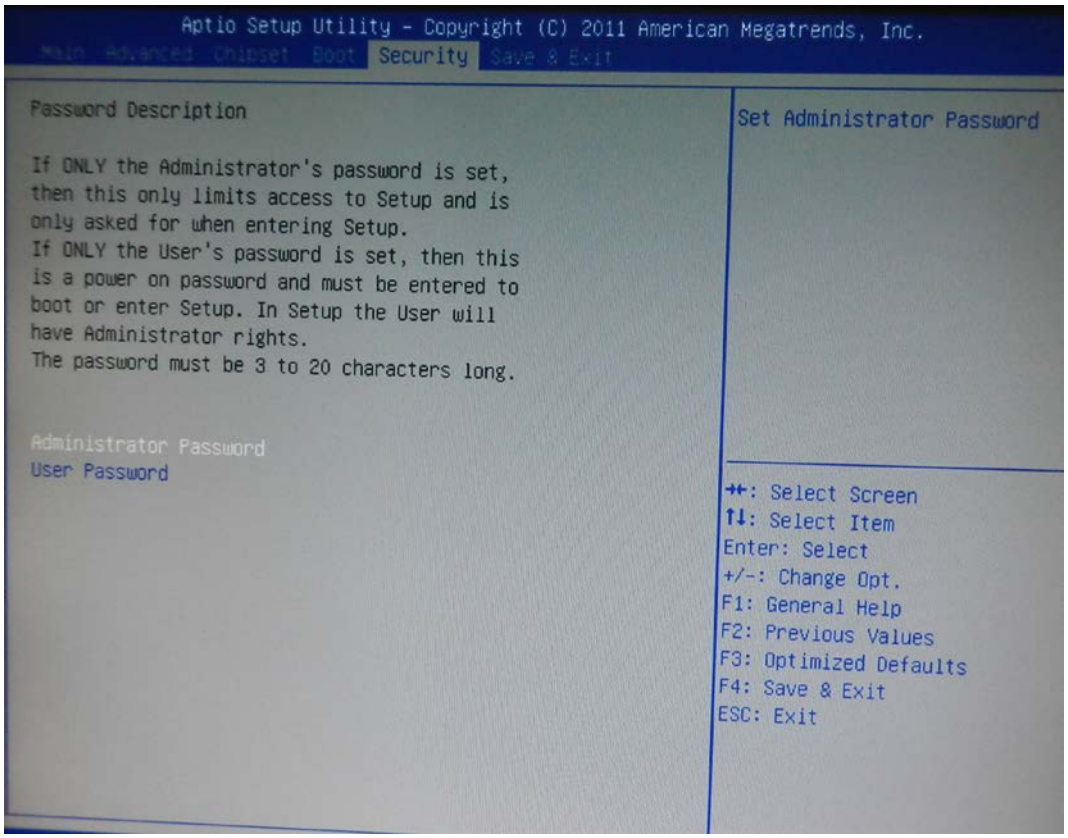
Use the Bootup NumLock State BIOS option to specify if the number lock setting must be modified during boot up.

Quiet Boot [Enabled]

Use the Quiet Boot BIOS option to select the screen display when the system boots.

7-4 Security

Use the Security menu to set system and user passwords.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit
Password Description
If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.
If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights.
The password must be 3 to 20 characters long.
Administrator Password
User Password
Set Administrator Password
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit

Administrator Password

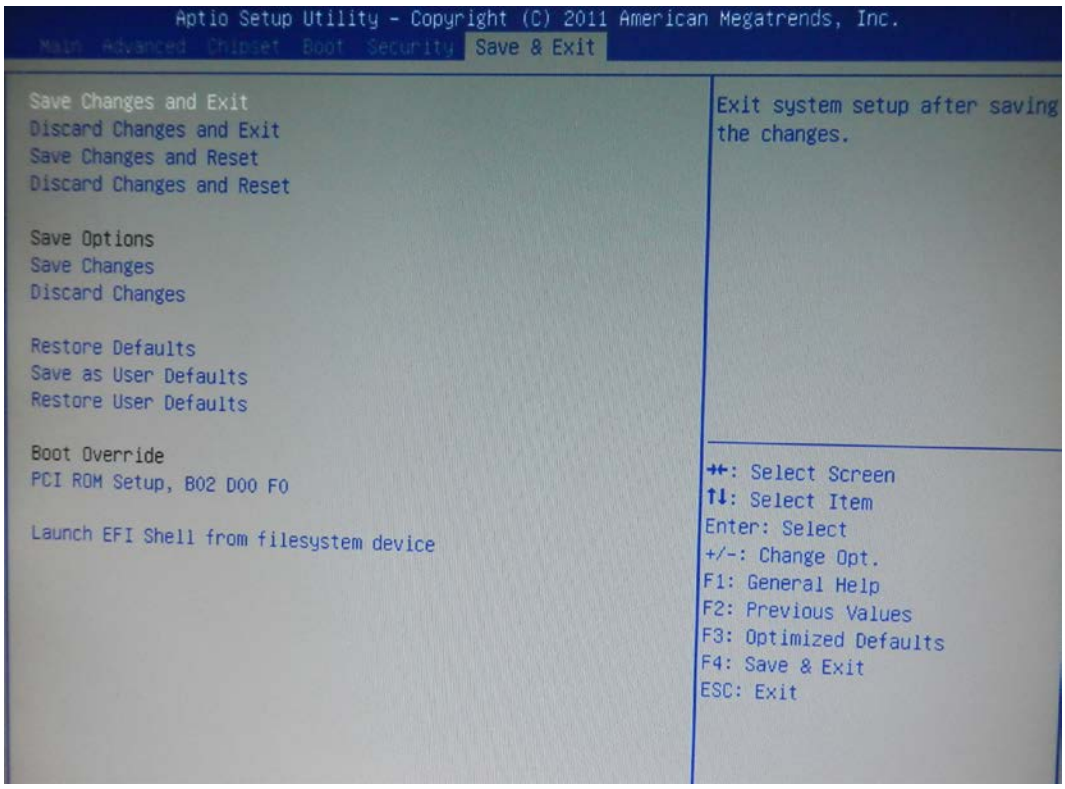
Use the Administrator Password to set or change an administrator password.

User Password

Use the User Password to set or change a user password.

7-5 Save & Exit

Use the Save & Exit menu to load default BIOS values, optimal failsafe values and to save configuration changes.



8 LCD Surface Cleaning

1. How to clean the LCD surface properly?

- ☆ Do not spray any liquids on the LCD screen directly, and do not use paper towels, this can cause the LCD screen to become scratched.
- ☆ Always apply the solution to your cloth first, not directly to the parts you are cleaning. You want to avoid dripping the solution directly into your computer or laptop.
- ☆ Stroke the cloth across the display in one direction, moving from the top of the display to the bottom.

2. What are some of the basic supplies needed to clean an LCD screen?

- ☆ A soft cotton cloth. When cleaning the LCD screen it is important to use a soft cotton cloth, rather than an old rag. Some materials, such as paper towels, could cause scratches and damage the LCD screen.
- ☆ Solution of water and isopropyl alcohol. This solution can be used along with the soft cotton cloth.
- ☆ Computer wipes. Only use these if they specifically state on the package they are designed for LCD laptop screens. Computer wipes can come in handy for fast clean-ups or when you want to avoid mixing up a cleaning solution yourself.

3. What types of cleaners are acceptable?

- ☆ Water
- ☆ Vinegar (mixed with water)
- ☆ Isopropyl Alcohol

NOTICE: The following cleaners are unacceptable:

- ☆ Acetone
- ☆ Ethyl alcohol
- ☆ Ethyl acid
- ☆ Ammonia
- ☆ Methyl chloride

CE Notice

This device complies with the requirements of the CE directive.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WEEE Notice

This appliance is labeled in accordance with European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE). The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.